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**Multipurpose hand-held implement of
the pocket-knife type**

10 The invention relates to a multipurpose hand-held implement of the pocket-knife type. "Of the pocket-knife type" means here that the implement is to be small, compact and suitable for carrying in a pocket and that, when not in use, there are no exposed points or sharp edges which could result in injury.

15 Pocket knives are often provided with a large number of tools: not just with large or small knife blades, but also with files, screwdrivers, saws, etc. The tools are usually articulated on a body and, by overcoming spring prestressing, are swung out into
20 their use position. In some cases, it is also possible for small tools to be removed in their entirety from the body.

Some types of tools can only be accommodated on or in a pocket knife if compromises are made as regards
25 the functional capacity. For example, there are pocket knives with swing-out scissors which, however, are then of too flimsy a design for most purposes and are also too small for a large number of applications.

The object of the invention is to provide a
30 multipurpose hand-held implement of the pocket-knife type which makes it possible to accommodate tools which, up until now, have been extremely difficult to produce, if at all, in pocket-knife form. The term "tool" here is to be understood in the broadest sense
35 and is intended to cover all conceivable implements or utensils which are used as auxiliary means for work and leisure purposes.

So, for example, for carrying out office and presentation work, use is made of a large number of different implements, devices and hand tools, such as stapling implements, hole punchers, scissors, magnifying glasses, letter openers, adhesive-tape dispensers and so on. Each tool or utensil is usually just provided for a single function. This does not pose any particular problem in an office, where the necessary space is available.

10 However, these utensils are often used in locations other than an established working area, for example in production areas or warehouses, when travelling on aeroplanes or trains, or in a hotel, but also, for example, in meetings, lectures or in schools, colleges and libraries. The user is then forced to carry along a vast array of utensils which are bulky and heavy, could cause injury and take up a lot of space, for example, in baggage.

 It would therefore be desirable to render such a piece of office equipment transportable in a compact form.

 A first aspect of the present invention provides a multipurpose hand-held implement, in particular for office work, having a first component and a second component which are connected movably to one another and can be moved between a first position, in which they form together an elongate, essentially cuboidal body, and a second position, in which access can be gained to a free space between the two components, means being provided for securing the components in the first position in a manually releasable manner. In contrast to conventional pocket tools with only one carrier body out of which one or more functional parts can be swung or drawn out, two such components are provided here, which also makes it possible to accommodate functional parts in which two part-tools are to be moved relative to one another,

that is to say, for example, a hole puncher or a stapler.

A second aspect of the invention provides a hand-held implement of the pocket-knife type, comprising a first component, which contains at least one tool or tool part, and a second component, which contains at least one tool or tool part, it being possible, for actuating at least one tool, for the two components to be moved in a guided manner relative to one another and to be brought into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner. A compact body is achieved in the locked state; in the unlocked state, it is possible to actuate one or more tools which are difficult to provide, if at all, on a conventional pocket knife.

Characteristic functions for which one tool part is to be accommodated in one of the components or shells and the other associated tool part is to be accommodated in the other component or shell includes hole punching, stapling and cutting with a pair of scissors. The parts required for these functions have a bearing on further aspects of the invention:

A third aspect of the invention provides a combined implement having a hole puncher and a stapler, comprising a first component with functional elements of the hole puncher and of the stapler, and a second component which contains the other functional elements of the hole puncher and of the stapler and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the insertion of paper which is to be stapled or punched, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, and

means being provided for securing the components in the closed position in a manually releasable manner.

A further aspect of the invention relates to a combined implement having a hole puncher and a pair of
5 scissors, which comprises: a first component with functional elements of the hole puncher, and a second component which contains the other functional elements of the hole puncher and can be moved, relative to the first component, out of an open position, in which the
10 two components are spaced apart by a distance sufficient for the introduction of paper which is to be punched, counter to the prestressing of a spring into a closed position, in which the two components form, with essentially congruent contours, a compact, essentially
15 closed body, means being provided for securing the components in the closed position in a manually releasable manner, and the scissors being accommodated in one of the components and being displaceable out of this position into a functional position, in which they
20 can be actuated by means of relative movement of the two components.

In a comparable manner, the invention also relates to a combined implement having a stapler and a pair of scissors, comprising a first component with
25 functional elements of the stapler, and a second component which contains the other functional elements of the stapler and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient
30 for the introduction of paper which is to be stapled, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components
35 in the closed position in a manually releasable manner, and the scissors being accommodated in one of the components and being displaceable out of this position into a functional position, in which they can be

actuated by means of relative movement of the two components.

Yet another aspect of the invention relates to a combined implement having a stapler and a tool, comprising a first component with functional elements of the stapler, and a second component which contains the other functional elements of the stapler and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper which is to be stapled, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, and the tool being accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.

A further aspect of the invention relates to a combined implement having a hole puncher and a tool, comprising a first component with functional elements of the hole puncher, and a second component which contains the other functional elements of the hole puncher and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper which is to be punched, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, and the tool being accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its

closed position, forms the handle for manipulating the tool.

A further aspect of the invention relates to a combined implement having a pair of scissors and a tool, comprising a first component, and a second component which can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by an actuating distance, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, the scissors being accommodated in one of the components and being displaceable out of this component into a functional position, in which they can be actuated by means of relative movement of the two components, and the tool being accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.

A combined implement comprising a stapler, a hole puncher and a staple remover is known, for example, from the printed document DE-A-26 25 749. However, this implement is obviously designed for use on a desk and cannot be made into a compact body of the pocket-knife type.

The two components or shells are preferably designed as elongate, cuboidal hollow bodies which are delimited by a base surface, a top surface and in each case two side surfaces and end surfaces.

The two components are preferably of approximately the same size, are preferably shaped approximately symmetrically and, in the first position or closed position, are located approximately congruently one above the other, their base surfaces being directed towards one another, with the result

that they form together an essentially closed, compact body.

The outer contours of the components are preferably rounded on all sides, so that the implement
5 can be held equally well in all use positions. In this case, the two side surfaces may be flattened and set back with respect to the outer contours of the implement for the purpose of accommodating operating elements, for example sliding switches, with the result
10 that the operating elements do not project beyond the contours of the housing. A separating joint may be provided between the components in order that one's hand does not get caught when closing the implement. A particularly pleasing form is achieved if a joint which
15 runs all the way around or a gap is arranged between the preferably symmetrical components.

Of course, it is also possible for the components to be of different sizes, in particular of different heights; it is also possible for the contours
20 to differ from one another.

Alternatively, of course, it is also possible for the components to be moved wholly or partially one inside the other or one over the other and to be overlapped completely or partly in the first position,
25 for which purpose the contours of the components have to be matched with one another correspondingly.

In order to ensure accessibility to the free space between the components for specific uses of the hand-held implement, for example for stapling or hole
30 punching, corresponding housing openings or access slots could be provided on the components in such an embodiment.

It would also be possible to provide more than two components and thus to operate various part-
35 functions of the hand-held implement, for example hole puncher and stapler or a pair of scissors, via separate components.

The components may be connected to one another via a parallel guide or via an articulation which is preferably arranged in the vicinity of one end surface of the components and whose axis of rotation runs transversely with respect to the longitudinal axis of the components and parallel to the base and top surfaces.

The articulation may be arranged in the cavity of one component and be connected to the other component via a bearing block.

In the first position, the components are locked by a locking mechanism which is preferably arranged at a distance from the articulation and can be activated and deactivated via a manually actuatable locking-mechanism button which is preferably placed on one of the top surfaces, in the vicinity of the end wall located opposite the articulation.

The design of the locking mechanism here is to be selected such that, in the unlocked position, rather than projecting beyond the base surfaces, where it could obstruct certain functions of the implement, it is located behind the base surfaces and can be moved resiliently behind these.

In a preferred embodiment, locking takes place outside the free space provided for the implement functions, for example stapling and hole punching, for example on the bearing block.

In order to avoid malfunctions, in particular inadvertent opening or locking of the implement, the locking mechanism should be latched in the locked and in the unlocked position. In this case, the locking-mechanism switch may be designed, for example, as a sliding switch with two latch-in positions.

In order to move the components from the first position into the second position, a spring which is preferably designed as a leg spring or compression spring and is arranged on, or in the vicinity of, the articulation may be provided.

The second position is defined by a stop which delimits the opening path of the components.

The components are to be provided with corresponding recesses into which the housing sections which
5 run towards one another when the implement is opened can move, in which case it should be ensured that the accesses to the free spaces, for example the push-in slot to the hole puncher, remain open.

In addition to the tools or utensils whose
10 functional elements are accommodated in both components, for example stapler and hole puncher, it is also possible for various additional tools and utensils to be accommodated in the individual components, it being possible for these tools and utensils to be moved
15 out of the components into a use position from a storage position, in which they are essentially accommodated in the components.

The utensils are arranged in the components with their broad sides preferably parallel to the base,
20 top or side surfaces, and are mounted with rotary, swinging or sliding action in said components.

For purposes of swinging out or displacing the utensils into their use position, corresponding opening slots are to be provided on the outer surfaces of the
25 components.

One or more utensils, preferably arranged parallel to one another, may be accommodated in the components, it being possible for said utensils to be swung out or displaced into their use position in the
30 same or opposite movement directions.

In the case of a preferred design, the displaceable utensils are mounted in the components with their broad sides parallel to the side surfaces and resting directly against the latter in a
35 longitudinally displaceable manner, and they can be displaced into their use positions through correspondingly arranged opening slots on the end surfaces.

A free space in which assemblies of further utensils may be accommodated is preferably provided between the utensils which are mounted such that they rest against the side surfaces.

5 For the purpose of guidance in the components, the utensils may be provided with guidance continuations at their ends which are at the rear in the push-out direction, said guidance continuations being mounted in the components in longitudinal guides,
10 for example via sliding blocks in longitudinal slots.

The use positions of the utensils are defined by stops which delimit the swing-out or push-out path.

The utensils are fixed in the storage and use positions by means of manually releasable arresting
15 means.

The arresting means may be provided individually for each utensil or jointly for a number of utensils.

The swing-in and swing-out or sliding movements
20 of the utensils may be assisted by spring force.

The utensils can be adjusted via operating elements which are preferably arranged on the side or top surfaces of the components.

In the case of displaceable utensils, corresponding longitudinal slots are to be provided in the
25 sides and/or top surfaces; a number of operating elements could also be assigned a common longitudinal slot.

Set-back hollows could be provided on the side
30 and/or top surfaces for the operating elements, the latter being positioned in said set-back hollows such that their outer surfaces are in alignment with the outer sides of the top and/or side surfaces.

In this arrangement, a common set-back hollow
35 could be provided for a number of operating elements.

In the case of utensils which are mounted in the components such that they can be displaced in opposite directions, the operating elements could be

arranged such that they run onto one another. It could consequently be ensured that in each case only one of the two utensils is extended.

Alternatively, the operating elements could be
5 arranged such that they are offset with respect to one another, with the result that they could be displaced past one another and the extension paths of the utensils could thus be increased. The operating elements are preferably connected to the utensils in
10 the region of the guidance continuations and are provided simultaneously for activating and deactivating the arresting means. For this purpose, the operating elements could be designed, for example as push buttons or sliding switches or be provided with ones with which
15 the arresting means can be activated and deactivated.

A central locking means, which additionally blocks all the utensils or groups of utensils in the storage positions, could also be provided. This additional locking means could be designed as a separating
20 operating element or, for example, could also be combined with the locking-mechanism button. It is also possible to provide, for suitable utensils, for example magnifying glass, measuring rule or pointer or writing implements, end-side grip hollows by which said
25 utensils can be gripped and drawn out into their use positions or drawn out of the components to the full extent.

Certain utensils, for example measuring rule or writing implements are preferably accommodated in the
30 components such that they can be removed therefrom. For this purpose, it is possible to provide channels into which the utensils can be pushed and arrested or locked. Such channels may extend over the entire length of the components and be accessible via push-in slots
35 on the end surfaces. It is also possible for receiving compartments which can be swung out of the components to be provided.

For the purpose of replacing worn or defective utensils, the latter may also be designed such that they are connected releasably to the guidance continuations. For this purpose, the guidance
5 continuations can preferably be moved out of the components to such an extent that it is possible to exchange the utensils outside the components. The utensils may optionally be arranged in one or in both
10 components with their broad sides parallel to the top and bottom surfaces and/or to the side surfaces, and such that they can be swung and/or displaced in the same direction or opposite directions, in any combinations corresponding to the requirements placed on the hand-held implement in each case.

15 The utensils may comprise fixed or exchangeable blades or else so-called "cutter blades" with break-off blade sections, the latter preferably being mounted in a longitudinally displaceable manner in the component and also being arrestable in the intermediate positions
20 of the displacement path. For optimum manipulation, the cutting edges of the blades are preferably directed, in the use position, towards the top surfaces of the component in which they are mounted.

The utensils may also comprise a staple
25 remover, which preferably has a U-shaped cross-section, the base surface and the two lateral leg surfaces tapering towards the free end. In addition, the outer end of the staple remover could also be designed as a screwdriver.

30 For the best possible manipulation, the staple remover is preferably arranged directly on the inner side of a top or side surface, is bevelled on its outwardly directed base surface and is directed, by means of the leg surfaces, towards the longitudinal
35 axis of the component in which it is mounted.

The staple remover is preferably guided in a longitudinally displaceable manner in the component, a staple-detaching means preferably being arranged at the

opening slot for the staple remover, said detaching means meshing with the U-profile of the staple remover and detaching the staples when the staple remover is pushed into the implement.

5 Furthermore, the utensils may comprise a pair of scissors, which is preferably mounted in a longitudinally displaceable manner in one of the components with the scissor blades swung together.

10 In the case of the preferred embodiment with an articulation which is arranged in the vicinity of an end surface and whose axis of rotation runs transversely with respect to the longitudinal axis of the component and parallel to the base or top surface, the scissor blades are preferably arranged in the
15 component such that their broad sides run parallel to the side surfaces of the component and the scissors axis runs parallel to the axis of rotation of the articulation, the scissors preferably being accommodated in the component in which the articulation
20 is arranged.

 In order to use the scissors, the scissor blades are moved out of the component, through an opening slot arranged in the end wall located in the vicinity of the articulation, until the scissors axis
25 and the axis of rotation of the articulation are essentially located one above the other or concentrically with respect to one another. The scissor blades are extended beyond the scissors articulation by scissor shanks. One of the scissor shanks is designed
30 as a guidance continuation and is mounted in a longitudinally displaceable manner in the component, while the second scissor shank, upon opening of the scissor blades, in the use position, moves, through a recess provided in the base surface, in the direction
35 of the other component.

 In the use position of the scissors, the second scissor shank is held in operative connection with the other component, for example, by a scissors spring,

which pushes the scissor blades or shanks apart from one another or via a coupling element, with the result that the scissor blades can be swung open and closed by virtue of the movements of the components between the
5 first and the second positions. In this case, it has to be ensured that, to compensate for the movement geometry, the second scissor shank remains longitudinally movable with respect to the component on which it is supported or to which it is coupled. When
10 the first scissor shank is pushed back into the component, the scissor blade connected to the second scissor shank runs onto that termination edge of the opening slot of the end wall which is directed towards the top surface, as result of which the two scissor
15 blades or shanks are swung together and can thus be pushed back into their storage position in the component to the full extent.

Alternatively, of course, it would also be possible for the components to be moved into the first
20 position first of all and for the scissor blades or shanks, already swung together as a result, to be pushed back into the component thereafter. Appropriate control means preferably make it possible for the scissor blades to be coupled and uncoupled and pushed
25 out and pushed in in any relative position of the components.

In order to ensure that the cut material does not collide with the components, the scissor blades are to be provided with corresponding deflecting edges and
30 the end surfaces of the components are to be provided with corresponding rounded sections, these guiding the cut material past the components.

By virtue of the pivot point of the scissor blades being displaced beyond the articulation, the
35 distance between the end surfaces and the deflecting edges of the scissor blades can be increased and the deflection improved. Additional fixed or movable deflecting means, which can preferably be activated or

deactivated by the push-out or push-in movement of the scissors, could also be provided on the scissor blades and/or on the components. Thus, for example, the introduction slot for a hole puncher could be closed off
5 when the scissors are in use.

The slide for moving the scissors between the storage position and the use position is preferably arranged on the guidance shank, in which case the other scissor shank is to be provided with a corresponding
10 recess or is to be shortened, with the result that the scissor blades can be closed to the full extent.

Alternatively, it would also be possible to provide a pair of scissors which, rather than being activated by the relative movements of the components,
15 can be pushed or swung out of one of the components and is actuated by hand, preferably with the components in the closed state. In this case, the scissor blades are opened via a separate scissors spring which can be deactivated for the purposes of retracting the scissors
20 into the component or extending them therefrom. This could be carried out via a separate locking member preferably arranged on the scissors or via the guide in the component or via control means, in which case the functions of locking and unlocking the scissors in the
25 outer use position and opening and closing the scissor blades are preferably coupled to one another.

A magnifying glass could be provided as a further utensil, said magnifying glass preferably being arranged in a plate-like mount which is mounted
30 displaceably in the component with its broad sides parallel to the base and top surfaces and can be displaced into its use position through an end-side opening slot. The magnifying glass is preferably pushed out by a spring and is secured in the component by a
35 locking arrangement which can be released on the end side. In the guide region, the magnifying glass is preferably forked or recessed such that there is space for additional utensils. The plate-like mount may

comprise two pieces which are connected to one another via a pivot pin which is arranged transversely with respect to the push-out direction and parallel to the plane of the pieces, the outer piece containing the
5 magnifying glass, which may be angled with respect to the component, this considerably improving manipulation, in particular, in combination with a lamp arranged on the end surface.

The utensils may further comprise a measuring
10 rule with ruler and template function, said measuring rule preferably being accommodated loosely in the components and being removable therefrom to the full extent for convenient manipulation. A push-in channel may be provided for accommodating this utensil, said
15 channel preferably being arranged directly on the inner side of one of the top surfaces and extending essentially over the length of the component into which the measuring rule is pushed with its broad side parallel to the top surface.

20 The measuring rule can be secured in the storage position in the component by means of protrusions or a releasable locking means, and it can be removed from said component by an end-side removal grip or with the aid of a push-out spring.

25 Utensils may further comprise a measuring tape, which may preferably be accommodated in one of the components so as to be rolled up around an axis located perpendicularly with respect to the top and base surfaces, and which may be drawn out of the component
30 through an opening slot provided on the end and/or the side surfaces. The measuring tape is preferably arranged outside the displacement path of the displaceable utensils arranged on the side walls, with result that the maximum width of the interior of the
35 component can be utilized for accommodating the measuring tape. The measuring tape may be provided with a roll-up spring and a fixing brake which can be

activated and deactivated via a button arranged preferably on the end surface.

Of course, it would also be possible to accommodate the measuring tape in the components so as to be
5 rolled up around an axis located perpendicularly with respect to the side and/or end surfaces, in particular when the separating plane between the components does not run centrally or the components move one inside the other or one over the other and the necessary
10 installation height is thus available for accommodating the vertically arranged measuring tape in one of the components.

In addition, or alternatively, to the measuring tape, an adhesive-tape dispenser could also be accom-
15 modated in the components.

In order to receive the exchangeable rolls of adhesive tape, one of the components could comprise a mount with a hub on which the roll of adhesive tape is mounted rotatably. The roll of adhesive tape could then
20 be arranged in the components analogously to the variants for installing the measuring tape.

In order to draw off the adhesive tape, a through-passage slot, preferably provided with a tear-off edge, would have to be provided at an appropriate
25 location in a side, end or top surface of the component. In the case of a preferred design, the tear-off edge could be arranged on a tape holder which is connected movably to the component, could, for example, be swung out of the component and, in the process,
30 moves the start of the adhesive tape out of the component to such an extent that it can be gripped conveniently. The inner surface of the tape holder could be coated with a non-stick coating, with the result that the adhesive tape is detached easily from
35 the tape holder when the latter is swung out. The tape holder could latch in the inner and/or outer position, or else could be moved from one position into the other by spring force.

In order to exchange the rolls of adhesive tape, the mount could be accessible via an opening which can be closed off preferably by means of a cover.

Alternatively, the mount could be moved out of
5 the component, for example on a carrier, to such an extent that the roll of adhesive tape can be introduced into the mount or removed therefrom. It would also be possible for the entire adhesive-tape dispenser to be swung or pushed out of the component in order to be
10 used.

As a further utensil, a lamp whose light-outlet opening is preferably located on an end surface could be accommodated in the components.

The batteries necessary for supplying power to
15 the lamp could be accommodated in the component in a battery compartment which is arranged behind the lamp and is accessible via an opening, for example in the top surface, which can be closed off by a cover. The lamp could be switched on and off via an electric
20 switch arranged preferably on the top surface in the vicinity of the light-outlet opening.

If the hand-held implement is equipped with the lamp and magnifying glass, these could be arranged, in a preferred embodiment, on a common end surface or on
25 two adjacent end surfaces, such that it is possible to illuminate the space beneath the magnifying glass extended into the use position.

It would also be possible, in such an embodiment, for the lamp to be arranged directly in the
30 magnifying glass and/or to be switched on automatically when the magnifying glass is extended.

In addition, or alternatively, to the lamp, it would, furthermore, be possible to accommodate a so-called laser pointer (illuminated pointer) in the
35 components, the light-outlet opening of which is preferably likewise arranged on an end surface.

In the case of a combined installation of lamp and laser pointer, these are preferably arranged one

beside the other or one above the other in the same component, provided with a common light-outlet opening, fed via a common power supply and can be operated via a combination switch, for example position 1: light on,
5 position 2: push button for the laser.

A pointer which can be drawn out telescopically could likewise be provided, which pointer can preferably be drawn out of one of the components through an end-side opening, it being possible to
10 provide a push-out device by means of which the pointer is pushed out of the component until it can be gripped.

The utensils may also comprise a stapler, in which case the functional elements are accommodated in both components. In the case of a preferred embodiment,
15 the stapling head is arranged in the first component and the anvil is arranged in the second component.

For this variant, the two components are preferably connected to one another, in the vicinity of one end side, via an articulation, whose axis of
20 rotation runs transversely with respect to the longitudinal axis of the components and parallel to the base and top surfaces, the stapling head as well as the anvil being arranged in the vicinity of the end surfaces located opposite the articulation. In order to
25 ensure that, even with the maximum number of sheets being provided, the stapling head rests properly on the stapling material and the latter cannot be damaged by the components, that region of the components which contains the free space into which the stapling
30 material can be pushed is to be correspondingly recessed, and the pivot arm on which the stapling head is arranged with an inclined section directed towards the stapling material is to be arranged in the first component. In order to receive the staple block, the
35 stapler mechanism comprises a staple magazine which is guided movably in the first component. Preferably, the staple magazine is mounted on the articulation and can be pivoted concentrically with respect to the

components. In this arrangement, the staple magazine is prestressed in the direction of the second component by a magazine spring and is moved out of the first component to such an extent that the staple driver is
5 extended out of the staple magazine beyond the height of the staple block.

The outer position of the staple magazine is delimited by a magazine stop which is arranged, for example, as a sliding switch on the first component
10 and/or on the staple magazine and can be deactivated manually, with the result that the first component and the staple magazine can be pivoted apart from one another in order for the staple block to be introduced. Alternatively, the path of the magazine spring could
15 also be delimited by a stop arranged in the first component. Consequently, a magazine stop for delimiting the outer position of the staple magazine could be dispensed with, and the operation of pivoting the first component and staple magazine apart from one another
20 for the introduction of a staple block could take place without the magazine stop being deactivated.

In order to improve the accessibility to the staple magazine for introduction of the staple block, the stop which delimits the opening path of the
25 components could be deactivated. Furthermore, it would also be possible to delimit the opening path of the staple magazine by a stop on the second component and for the first component to be moved beyond this stop. In the case of this embodiment, the spring force for
30 moving the components from the first position into the second position could preferably be transmitted from the second component to the first component via the staple magazine. In the case of this embodiment, depending on the design of the staple magazine, the
35 opening path of the first component beyond the staple magazine could be delimited by a fixed or releasable stop.

In a preferred embodiment, it is to be possible for the stapler to be deactivated. This is necessary, in particular, when further utensils, for example a pair of scissors or a hole puncher, which are likewise
5 actuated between the first position and the second position by the relative movements of the components are integrated in the hand-held implement. In this case, it is to be ensured that, when the scissors or hole puncher are used and, of course, also when the
10 components are locked with respect to one another, the stapler remains non-active. In addition, it is advantageous if the additional high spring force of the magazine spring takes effect only when the stapler is used since, otherwise, this force also has to be
15 overcome when the hole puncher or scissors are used and when the components are locked with respect to one another. Depending on the type of deactivating mechanism, the overall height of the first component may be considerably reduced and, as a result, the
20 implement may be of a considerably more compact construction. It is possible to deactivate the stapler in a number of ways. For quick and straightforward manipulation of the implement, the activation and deactivation of the stapler can take place via an
25 actuating member arranged preferably on the outer side of the components. An advantageous solution is obtained by the actuating member being arranged, in the vicinity of the stapling head, in that end region of the first component which is located opposite the articulation.
30 The actuating member is advantageously designed here as a push-button switch, sliding switch or rocker switch, and it should be noted that, when said switch is actuated, the force vector is directed such that it does not result in any closing movement of the open
35 implement. The stapler is preferably activated in each case only for a single stapling operation. It is consequently ensured that deactivation of the stapler before the implement is locked or before using other

functions of the implement, for example the hole puncher or the pair of scissors, cannot be "forgotten", it also being possible, of course, to design the deactivating mechanism such that, after activation, the stapler remains active for a number of stapling operations until such time as it is deactivated via the actuating member. It would also be conceivable to design the deactivating mechanism such that a selection could be made between a number of functions, for example stapler off, stapler on, single stapling operation. Furthermore, the stapler mechanism should be designed such that it can be activated only when the implement is open and activation cannot take place when the implement is closed, since otherwise, when the implement is next opened, the stapler would be in the activated state even though this function is perhaps not required at all. This could be effected, for example, by the deactivating mechanism being blocked when the implement is in the closed state. Furthermore, it should be ensured that inadvertent locking of the implement - for example as a result of the locking-mechanism switch being displaced by mistake - is not possible when the stapler is in the activated state. This is preferably effected by the locking mechanism and the deactivating mechanism being safeguarded with respect to one another to such an extent that, when the stapler is in the activated state, the locking mechanism cannot be brought into the closed position. An advantageous solution is obtained when the locking mechanism is designed such that locking of components is possible only in the closed position thereof.

In the case of a preferred embodiment, it would be possible to provide, for deactivation of the stapler, a magazine locking mechanism which, with the stapler driver retracted, secures and locks the staple magazine in the first component counter to the force of the magazine spring. Locking advantageously takes place automatically after each single use of the stapler, and

for activation of the stapler, the magazine locking mechanism is released manually. Consequently, the staple magazine is moved out of the first component up to the magazine stop under the action of the force of the magazine spring and, in the process, the staple driver is drawn out of the staple magazine to such an extent that the staple block can move up towards the staple stop. The extension movement of the staple magazine could be braked here by a damping element.

10 After a single stapling operation has taken place, the staple magazine is automatically locked in the first component again. The magazine locking means is preferably deactivated via a stapler button which is arranged on an outer surface of the component, for

15 example on the end surface located next to the stapling head. In the case of this preferred embodiment, the magazine locking mechanism is prestressed by a spring and locks the staple magazine automatically after each single stapling operation. It is only the deactivation

20 of the magazine locking mechanism which takes place manually via the stapler button before each stapling operation.

As has been mentioned, it would also be possible for the automatic locking of the staple

25 magazine to be switched off manually and the stapler thus to be switched over for "single stapling operation" and "repeated stapling operation". In the case of these variants with a lockable staple magazine, it should be ensured that a staple block which has been

30 newly introduced in the staple magazine remains at a distance from the staple stop until the staple driver is retracted into the staple magazine. This could be effected, for example, via an additional or movable staple stop by means of which the staple block is held

35 back from the range of action of the staple driver until the latter is retracted into the magazine, and which is activated or deactivated, for example, by the

relative movement between the staple magazine and first component when a new staple block is introduced.

The stapler could also be deactivated by direct interruption in the operative connection between the staple driver and staple block, for example the retraction of the staple driver into the staple magazine being prevented by a blocking member or the staple driver being arranged movably in the first component and being capable of adjustment from a non-active position into an active position, for example, by being displaced or swung out, as a result of which, in the case of these embodiments too, it would be possible to select between "single stapling operation" and "repeated stapling operation". It would also be possible for the blocking member or the staple driver to be prestressed respectively into the active or non-active position by a spring and to be guided back into these positions via a positive-control means after each stapling operation and to be capable of activation in each case only for a "single stapling operation", for example by means of a stapler button. For a kinematic reversal, it would, of course, also be possible, for deactivation of the stapler, to move the staple block out of the range of action of the ram and into a non-active position.

Finally, it would also be possible, for deactivating the stapler, to move the entire stapler unit, with the staple magazine and the stapler driver extended out of the staple magazine, into the first component by means of an actuating member and, for activating the stapler, to extend said unit out of said first component. In addition, it would be possible to move the anvil and, if necessary, the base surface of the second component away from the range of action of the stapling head, with result that those parts of the stapler unit which project out of the first component can move into the second component when the implement is closed without the stapler being activated thereby.

However, it is obvious that these embodiments result in an increase in the overall height of the implement.

The staple magazine preferably has a U-shaped cross-section and can be formed in one piece from sheet metal by punching and bending. In a preferred design, the open side of the U-shaped profile is directed towards the top surface of the first component in the front section of the staple magazine and towards the second component in the rear section adjoining the articulation. In this case, the front section is intended as a receiving space for the staple block, while the rear section is provided with a recess, for example, for a hole-puncher punch guide arranged in the second component and with an activating device for the punch. As a result of the receiving space for the staple block being shortened in this way, the loading slide is preferably pushed against the staple stop via a tension spring. A particularly compact design is obtained by using a clock spring which is mounted in the loading slide and, by means of its free end, is fastened on the staple magazine in the region of the staple stop.

For introduction of the staple block, it would also be possible for the staple stop to be arranged movably on the staple magazine and to be pivoted away so as to permit the staple block to be introduced into the staple magazine on the end side.

Alternatively, the staple magazine could also be designed as a so-called "spring compartment". In the case of this design, the staple magazine is mounted in a longitudinally displaceable manner in an outer channel mounted on the articulation and, upon actuation of a release member, is forced forwards out of the outer channel, under the action of the force of a push-out spring, to such an extent that the staple block can be introduced into the extended magazine from above. Consequently, it would be possible to dispense with a means for swinging open the magazine and/or first

component for the introduction of staples, and this considerably improves the stability and manipulation of the implement. Depending on the type of deactivating mechanism of the stapler, it has to be ensured that the
5 spring compartment can only be released when the stapler mechanism is activated and the end wall of the first component is raised above the outer channel to such an extent that the spring compartment can extend beneath the end wall. The spring compartment is
10 preferably released via an actuating member which is arranged in the region of that end wall of the first component which is located in the vicinity of the articulation, and which is in operative connection with the spring compartment via webs which are guided
15 laterally past the opening spring and - if present - the hole-puncher mechanism. The base wall of the outer channel has to be set back in the region of the stapling head to such an extent that, during stapling, in each case the staple-outlet opening of the magazine
20 comes into contact with the stapling material in front of the outer channel.

The stapler could also be provided with a so-called flat-clinch mechanism, by means of which a first part-displacement of the components drives the staples
25 into the paper which is to be stapled and said staples are bent over thereafter via a second part-displacement of the components. In order to be able to construct the implement to be as narrow as possible, despite the installation of such a mechanism, the magazine and/or
30 the outer channel may be provided with base openings which are arranged as closely as possible to the main spring and through which the transmission lever arranged in the first component projects downwards in the direction of the second component. Consequently,
35 the transmission mechanism can be positioned between the walls of the bearing block and thus be protected against damage and be accommodated in the implement such that it is hidden from view.

The anvil of the stapler is preferably arranged on the base surface of the second component. A number of anvils, for example for open or closed stapling, may be mounted movably in the second component on a
5 separate slide or rotary plate.

Free spaces are preferably provided between the staple magazine and/or the outer channel and the side and/or top surfaces of the first component, in which free spaces it is possible to accommodate further, in
10 particular longitudinally displaceable or swing-out flat utensils, for example a knife, blade, pair of scissors, staple remover/screwdriver, measuring rule or magnifying glass. These may be guided on the first component and/or on the staple magazine and/or outer
15 channel.

The locking mechanism for locking the components is preferably arranged in the space between the stapler unit and the top surface of the first component, the operative connection to the second
20 component taking place via coupling elements which are preferably guided laterally past the staple magazine and/or outer channel.

Finally, the utensils may also comprise a hole puncher, in which case the functional elements are also
25 distributed between both components. In the case of a preferred embodiment, the hole-puncher mechanism is preferably arranged in the second component and is activated by the first component during the movement from the second position into the first position.

30 The hole puncher is provided with only one punch, which permits a considerably simplified, smaller and compact construction of the hand-held implement. In addition, the hand-held implement can be readily used, without adaptation, for the large number of standard
35 hole-to-hole distances, these differing from country to country, and, finally, it is also the case that less pressure is required for the punching operation, which

is advantageous, in particular, when the hand-held implement is used without a table for support.

It would be possible, in the event of the components moving between the first position and the
5 second position, for the hole puncher to be carried along with said components in each case since no other applications of the hand-held implement are disrupted by the hole-puncher actuation. Of course, the functioning of the hole puncher could also, however, be
10 switched on and off.

The hole-puncher mechanism comprises a punch which is preferably mounted, perpendicularly with respect to the base and top surfaces, in a punch guide arranged on the second component.

15 It is also the case that, for provision with a hole puncher, the components are preferably connected to one another, in the vicinity of one end side in each case, via an articulation whose axis of rotation runs transversely with respect to the longitudinal axis of
20 the components and parallel to the base and top surfaces, the punch preferably being arranged between the articulation and the end surfaces located opposite the articulation, approximately centrally with respect to the longitudinal axis of the components and in the
25 vicinity of the articulation.

The punch guide advantageously forms, together with the bearing block, a common assembly, which is fastened on the second component in the region of the base surface and extends in the direction of the first
30 component, in which case corresponding recesses are to be provided in the first component and/or in the outer channel or in the staple magazine.

The punch is activated by the first component or by the staple magazine or the outer channel, with
35 which the punch can be brought into operative connection.

The operative connection can be produced via a carry-along member, for example via a transverse bolt

guided in the punch and in the staple magazine and/or in the outer channel or in the first component or via in each case one separate carry-along member for pushing and pulling one or more of these parts.

5 The advantage of this variant is that the punch is guided in both movement directions with positive control and therefore jamming of the punch during punching can also easily be released again by pulling the first component. It would also be possible, in the
10 case of this embodiment, for the bolt to serve as a stop for delimiting the opening path of the component and/or of the outer channel or of the staple magazine. Finally, in the case of this variant, the wear is reduced since, when the stapler and scissors are used,
15 the punch is carried along without spring loading. The overall height can be reduced if the carry-along member or members is or are arranged above the punch guide. In order to reduce the frictional forces which are caused by the tilting moment occurring when force is
20 transmitted to the punch, the transmission of forces could take place, for example, via a connecting rod or via a ball mounted on the end surface of the punch. Of course, the punch could also be prestressed into the non-active position by a compression spring arranged
25 preferably in the punch guide, in which case it would only be the activation of the punch which would take place via a carry-along member.

Consequently, the first component and/or outer channel and staple magazine could be pivoted beyond the
30 outer stop of the punch, which would be advantageous, in particular, for the introduction of the staple block into the staple magazine. The compression spring arranged on the punch could also be used, at the same time, for moving the components from the first position
35 into the second position.

Furthermore, the hole-puncher mechanism comprises a bearing platform which is arranged in the second component and is preferably located parallel to

the base surface or in the plane thereof. An introduction slot for the paper sheets which are to be punched is provided between the bearing platform and the punch guide. The introduction slot is open on the
5 two sides directed towards the side surfaces and one side directed towards the end surfaces of the components.

With the same arrangement of the punch in the components, it would be conceivable in principle for
10 access to be gained to the hole puncher from both end surfaces, the construction of the implement being different for the two variants. The two variants also differ as regards ease of use of the hole puncher.

If the paper is pushed into the hole puncher
15 from the end surfaces located opposite the articulation, then the two components, for the most part, project over the paper surface, which makes it more difficult to manipulate the hole puncher without a table for support. In order to avoid damage to the
20 paper sheets by the components being pressed in, preferably a stop for delimiting the closing movement of the components during hole punching and/or corresponding recesses on the side and end and/or base surfaces of the components would have to be provided.
25 Corresponding advancement of the punch should preferably ensure that the punching operation is terminated before the base and/or side and end surfaces of the first component come into contact with the surface of the paper. On the other hand, it should be
30 ensured that, in the second position of the components, the punch is extended out of the introduction slot to the full extent.

If the paper sheets are to be introduced from the end surfaces located in the vicinity of the
35 articulation, which considerably improves the manipulation of the hole puncher, then the bearing block should be arranged in the form of an extension arm on the punch guide connected to the second

component. In the case of this embodiment too, the corresponding recesses should be provided on the components in order to ensure that the paper sheets cannot be damaged by the components when the latter are closed. These recesses may be in the form of a step-like offset section.

A preferred embodiment of the implement is obtained if the push-in openings provided for the hole puncher and the stapler are located in a common plane and are at the same levels when the implement is in the closed position. In addition, the components could be arranged such that, in the closed position, their base surfaces are spread apart from one another by a distance corresponding essentially to the height of the push-in slot for the hole puncher, and the anvil and the bearing platform for the hole puncher are arranged in the plane of the base surface of the second component. In this case, the paper stop for the hole puncher is advantageously formed by the two side walls of the bearing block.

A through-passage opening which is intended for the punch and serves, at the same time, as a die is provided in the bearing platform. Arranged beneath the through-passage opening, in the second component, is a receiving space which is intended for the punchings and can be emptied via an opening which can be closed off by a cover. In order to prevent overfilling of the receiving space, the opening is preferably arranged in the top surface of the second component, and the cover is articulated and locked such that it springs open automatically as a result of the pressure produced in the event of overfilling. The cover is preferably secured by two latch-in positions, with the result that, in the presence of excess pressure, it does not open to the full extent, but only into the first latch-in position and thus signals the overfilled state. This means that unintended emptying-out of the punchings can be prevented.

The dimensions of the punch guide and bearing block are selected such that, in the first position of the components, this assembly can be accommodated in the rear section, adjoining the articulation, of the staple magazine and/or outer channel.

For lateral alignment of the paper sheets, it would be possible to provide markings, which indicate the position of the punch, for example on the component end surfaces arranged above and/or beneath the push-in slot.

In the case of a preferred embodiment a window is arranged in the bearing platform, in the region between the paper stop and through-passage opening for the punch, and the region of the rear sheet edge of a sheet which has been introduced into the hole-punching slot can be seen from the outside through said window, via a light guide arranged in the second component.

The light guide is manufactured from an optically conductive material, for example PMMA or PC, and is preferably of a rectangular cross-section and in the form of a truncated pyramid, the smaller end surface resting against the window of the bearing platform, while the larger end surface is in alignment with the top surface of the second component. The window in the bearing platform preferably extends up to the paper stop, while, for stability reasons, a supporting surface is to be provided between this window and the through-passage opening for the punch.

The end surfaces of the light guide may be of lenticular design and, in order to protect against scratching or soiling, are set back slightly with respect to the bearing platform and top surface. A marking, which marks the centre of the punch, is provided on the window of the bearing platform and/or on that end side of the light guide which is directed towards the bearing platform. A marking provided on the sheet border means that the punching can be positioned precisely in a simple, convenient and quick manner. It

goes without saying that, alternatively, a corresponding device could also be accommodated in the first component. The hand-held implement could also be provided with a sheet stop which is preferably guided
5 movably on the second component and can be set differently for the desired hole-to-hole distances. The sheet stop could be mounted, for example, rotatably in the second component and be pivoted between a storage position, in which it is located essentially parallel
10 to the longitudinal axis in the component, and the use position transverse to the longitudinal axis. The sheet stop could be designed with one or more arms, such that it can be drawn out and/or folded via articulations, and articulated on the second component, for example,
15 concentrically with respect to the through-passage opening.

Finally, for establishing the distance between the holes, it would also be possible to use a punching template which is held together with the paper sheets
20 and is introduced into the hole puncher together with said sheets. The punching template is preferably of an L-shaped cross-section and is held in position against the paper sheets in the centre of the sheet edges which are to be punched. End stops may delimit the
25 displacement path of the punching template in the introduction slot. The hole punching takes place in the two stop positions which provide the desired distance between the holes. For a quadruple punching operation, the punching template can be displaced outwards along
30 the sheet edges in each case by the distance between two holes. The punching template is preferably mounted displaceably in a guide groove, transverse to the longitudinal axis, in a second component.

In the region of the punch, corresponding
35 recesses are provided on the punching template; the centre of the punching template may have a marking on it. In the case of a preferred embodiment, the measuring rule is designed as a punching template.

In order to secure the hand-held implement in a shirt pocket or, for example, on the partition of a compartment in a briefcase, said implement may be provided with a resilient fastening clip. The latter is preferably arranged in a complementary hollow on the top surface of the first component, behind the locking-mechanism switch, and can be swung open towards said switch.

In a preferred embodiment, the individual utensils and operating elements are distributed between, and arranged in, the two symmetrical components, which are approximately of equal height, as follows:

The staple magazine and the outer channel are arranged in the central region of the first component, extend approximately over the length of the component, are mounted, on the articulation, at one end such that they can be rotated concentrically with respect to the components, and can be activated at the other end via the stapler button arranged in the region of the end surface. The receiving space and the activating element for the punch and the punch guide are accommodated in that section of the staple magazine and/or outer channel which is directed towards the articulation. Between the staple magazine and/or the outer channel and the side surfaces of the first component there are arranged, on one side, preferably the right-hand side as seen in the push-out direction, the longitudinally displaceable scissors and, on the other side, the longitudinally displaceable staple remover/screwdriver, it being possible for these two utensils to be displaced into their use positions, through opening slots in the end surface arranged in the vicinity of the articulation, by means of the sliding switches arranged on the side surfaces. The locking mechanism is accommodated between the staple magazine and/or the outer channel and the top surface of the first component. The locking-mechanism switch is arranged in

that end region of the top surface which is located opposite the articulation, and the operating element for the spring compartment is arranged in the rear end region located in the vicinity of the articulation.

5 The central region of the second component is subdivided into a number of sections arranged one behind the other. The receiving compartment for the punchings is accommodated in a first section, which
10 adjoins the rear end surface located in the vicinity of the articulation. Adjoining this is the window for the positioning of the material for punching. Accommodated in the adjoining section is the roll-up measuring tape, which is routed laterally past the window for the hole
15 puncher and past the receiving compartment for the punchings and passes out of the component through a slot arranged on the rear end side. An arresting switch for the roll-up measuring tape is likewise arranged on
20 this rear end side. Adjoining this is the battery compartment and, provided with a light-outlet opening on the end surface located opposite the articulation, the section for accommodating the lamp and laser
25 pointer. The battery compartment and receiving space for the punchings are accessible via swing-open covers on the top surface of the second component. The switches for actuating the lamp and laser pointer are
30 arranged at that end of the top surface of the second component which is located opposite the articulation. The magnifying glass which can be extended above the light-outlet opening on the end surface is arranged
30 between the lamp/laser section and the base surface of the second component.

 Between the centrally arranged sections and the side surfaces of the second component there are arranged, on one side, the longitudinally displaceable
35 knife blade and, on the other side, the longitudinally displaceable cutter blade, it being possible for these two utensils to be displaced into their use positions, through opening slots in the end wall located opposite

the articulation, by means of the sliding switches arranged on the side surfaces. The guide for the knife blade extends essentially over the entire length of the component; the guide for the cutter extends only up to the roll-up measuring tape, which extends, on the cutter side up to the side surface of the component. The sliding switches are arranged in elongate, hollow-like depressions which are located in the side surfaces, extend approximately over the length of the components and are open towards the base surfaces. The hollows are symmetrical in the first and second components and thus form a common hollow when the hand-held implement is closed. The top and end surfaces of the components are preferably formed from single-piece shell-like caps which consist of plastic and are positioned on the preferably metal, U-shaped parts which form the base and side surfaces of the components, the side surfaces being set back slightly with respect to the plastic caps, with the result that the sliding switches are located approximately flush with the outer contours of the plastic caps. The operating elements arranged on the top and end surfaces are preferably located flush with the outer sides of the plastic caps. The hand-held implement could alternatively be provided with, or additionally be supplemented by, further utensils of conventional pocket knives. The utensils could also be arranged or combined differently in the hand-held implement. It would likewise be possible for the hand-held implement to comprise only one of the utensils or functions of those described.

Exemplary embodiments of the invention are illustrated in the accompanying drawings and described in detail hereinbelow.

Figures 1 to 10 show a first embodiment, Figure 11 illustrates a variant of this embodiment, Figures 12 and 13 show a second, preferred embodiment, and Figures 14 and 15 show a variant which can be used in the case

of the first two embodiments. Figures 16 to 70 inclusive relate to a third, preferred embodiment.

Figure 1 is a view in longitudinal section of the implement in the open state,

5 Figure 2 is a view in longitudinal section of the implement in the closed state,

Figure 3 is a cross-sectional view on an enlarged scale,

Figure 4 is a perspective exploded view,

10 Figures 5 and 6 respectively show the implement with scissors and letter opener in the use position and/or storage position,

Figure 7 shows a perspective view of the implement with scissors in the use position,

15 Figure 8 shows a perspective view of the implement with letter opener, cutter and magnifying glass in the use position,

Figure 9 shows a perspective view of the implement with scissors, staple remover and measuring tape, 20 the latter being drawn out to some extent,

Figure 10 shows a perspective view of the implement in the open state with hole-puncher template,

Figure 11 is a partial section of a variant of the hole-puncher function,

25 Figures 12 and 13 respectively show the second embodiment of the implement in perspective and in longitudinal section,

Figures 14 and 15 are two mutually perpendicular sectional views of a variant with 30 adhesive-tape dispenser,

Figures 16 and 17 show perspective views from two sides of a further, preferred embodiment,

Figure 18 is a longitudinal section through the implement according to Figures 16/17,

35 Figure 19 is a longitudinal section perpendicular to the section according to Figure 18, in the vicinity of the underside of the implement,

Figure 20 is a cross-section in the vicinity of the hole-puncher mechanism,

Figures 21 to 24 show, in longitudinal section, the implement of Figures 16/17 in four different functional positions,

Figures 23a-23c are details relating to Figure 23,

Figures 24a-24c are details relating to Figure 24,

Figure 25 is an exploded view of the "skeleton" of the implement,

Figures 26 to 30 serve to illustrate the opening and closing mechanism,

Figures 31 to 33 show a variant of the locking mechanism,

Figures 34 to 39 show the design of slide-action locking bars,

Figure 40 shows a detail of the safety lock,

Figures 41 to 45 illustrate the scissors mechanism,

Figures 46 to 48 show a variant of the configuration of the scissors,

Figures 49 to 53 show a further variant of the scissors,

Figures 54 to 57 serve to illustrate the cutter tool,

Figures 58 to 61 relate to the staple remover,

Figure 62 shows a detail of a variant of the implement,

Figures 63 to 65 relate to the magnifying-glass arrangement,

Figures 66 to 69 illustrate the punching chamber, and

Figure 70 shows a perspective view of an alternative outer configuration of the implement.

General construction.

The implement presented here is a multipurpose hand-held implement, in particular for office work. The

implement comprises a first component in the form of an upper shell 20 and a second component in the form of a lower shell 22. The shells respectively have base surfaces 2 and 3 which are directed towards one another, top surfaces 4 and 5 which are directed away from one another, side surfaces 6, 8 and 7, 9, and end surfaces 10, 12 and 11, 13. The term "shell" already indicates that the two components have a number of cavities. The components may consist of metal or plastic; it is also possible to have combinations in which, for example, plastic covers are positioned, preferably snapped, onto metal cores.

The upper and lower shells are connected by means of an articulation and are pushed apart from one another by a spring arrangement. Pivot movements of the two shells relative to one another permit the actuation of certain utensils, in the present case a pair of scissors, a hole puncher and a stapler. Other utensils are accommodated in cavities of the upper and lower shells and, for use purposes, are pushed or drawn out of said shells, or if appropriate are removed completely therefrom.

The upper and lower shells rest with congruent contours of their base surfaces 2, 3 one above the other and, in the locked state, form a closed body of the pocket-knife type. The locked state is secured by means of a double locking bar 24 which can be unlocked by means of a locking-mechanism or unlocking button 26.

Found on the top surface 4 of the upper shell is a hollow 28 in which there is located a clip 30 which is articulated on the upper shell such that it can be pivoted through a small angle and which makes it possible for the implement to be hooked in a pocket or the like.

A compartment, e.g. for adhesive tape or adhesive labels, may be provided in or beneath the clip 30.

The stapling mechanism

(Figures 1, 2, 4)

A staple magazine, the stapling ram, a magazine spring and a securing button are located in the upper
5 shell. The two locking bars of the abovementioned locking mechanism are located on either side of the staple magazine.

The lower shell contains the anvil 32, which is provided in a known manner with a stamped impression
10 for inward stapling and with one for outward stapling and can be drawn out of a positively locking recess of the lower shell, and rotated, counter to the prestressing of a spring 34.

The staple magazine 36 can be pivoted relative
15 to the upper shell around the same articulation as the upper shell is pivoted relative to the lower shell. This element here is a part which has been formed by punching and bending and can assume three positions relative to the upper shell: when the implement is
20 closed, it is pushed into the upper shell (Figure 2), and a spring-loaded hook 40 provided on the securing button 38 latches in and holds the magazine. Therefore, for each following stapling operation, the securing button has to be actuated first of all in order for the
25 magazine to pass into the operating position under the prestressing of the magazine spring, here a leaf spring 41. This operating position is defined relative to the upper shell by a locking bar 42; in this position, the foremost staple of a staple block 44 is located beneath
30 the stapling ram and above the selected stamped impression of the anvil.

In its front, the staple-receiving part 46, the staple magazine is designed with an upwardly open U-profile into which the staples can be introduced from
35 above. In its rear section 48 connecting it to the articulation, in contrast, it forms a downwardly open hollow profile in order to leave space for the hole-puncher mechanism. For this reason, it would be

difficult also to accommodate an advancement compression spring behind a staple block 44; use is thus made here of a clock spring, of which the free end is fixed in the vicinity of the staple stop 50 and
5 which is received rotatably in the advancement block 52.

For the subsequent loading of a new staple block 44, the locking bar 42 is displaced and the magazine pivots into the position indicated by chain-
10 dotted lines in Figure 1, in which the magazine is accessible from above.

A stiffening bead 54, the function of which will be explained at a later point in the text, is stamped in the connecting section 48.

15 Articulation and hole-puncher mechanism

(Figures 1, 3, 4)

A single-piece part which has been formed by punching and bending and forms a punch guide 56 and a bearing block 58 is mounted on the lower shell. The
20 rectilinearly guided punch 60 is seated in the punch guide and rests, by means of its collar 62, against the inside of the top plate 66 of the punch guide, under the action of a restoring spring 64. Located beneath the punch guide is a push-in slot 68 for a sheet which
25 is to be punched, and a die 70 is provided in alignment with the punch. A chamber 72 for receiving the punchings is located beneath said die. Emptying takes place by the flap 74 being opened.

If the upper shell is pushed towards the lower
30 shell, the bead 54 comes into contact with the upper side of the punch and actuates the latter, that is to say displaces it until it passes through the die 70 to the full extent.

The bearing block 58 is formed by two parallel
35 legs of the punched and bent part which extends in the direction of the ends of the shells. They have aligned holes 76 passing through them, which holes are congruent with respect to similar holes 78 in the

connecting section of the staple magazine. An articulation bolt 80 passes through the pairs of holes 76/78, when they have been positioned congruently with respect to one another, and the bearing block 79 of the upper shell and projects beyond the holes 78 on either side. In each case one leg spring 80 is positioned, by means of its coil, on said projecting stubs, and the arms of said leg springs are supported on the upper and lower shells. Accordingly, the shells are prestressed in the opening direction. Their opening angle is delimited by interacting stops on the upper and lower shells.

Slide-action utensils

(Figures 3, 5 to 9)

Accommodated in chambers or channels 82, 84, 86, 88 of the upper shell which are open towards the lower shell and on an end side in each case are utensils which can be pushed out of the associated end-side opening. Channel 82 receives a knife blade (or a letter opener) 83; channel 84 receives a pair of scissors 85; channel 86 receives a staple remover 89; channel 88 receives a so-called cutter 87, which is a cutting implement with break-off part-blades. Common to all four utensils is the fact that they are connected, via guided shanks, to an operating element in the form of a sliding button 90. The four buttons are guided in pairs in longitudinal grooves of the upper shell and are pushed outwards into latch-in recesses or arresting means by springs 92. The letter opener, scissors and staple remover only have an inner and an outer latch-in position, whereas the cutter has a latch-in position for each break-off blade.

It can be seen, in particular, from a comparison of Figures 5 and 6 that

- the utensils accommodated on the same side of the staple magazine are pushed out of opposite ends of the implement,

- in which case the sliding button of one utensil delimits the push-out path of the other, and

- a pushed-out utensil prevents the respectively other utensil from being pushed out.

5 Apart from the fact that, in the case of the cutter, a new line of blades can be introduced after the last part-blades have worn out - indicated at 91 in Figure 8 - the letter opener, the cutter and staple remover do not have any special features.

10

Scissors

(Figures 5 to 7)

Besides the hole puncher and the stapler, the pair of scissors 85 is the third utensil which is actuated by the two shells 20 and 22 being pushed
15 together.

The scissors comprise four parts: guided blades 100, to which the associated sliding button is connected, articulation pin 102, articulated blade 104, and scissors spring 106. Each blade has a cutting-edge
20 part on the near side, and an actuating part on the far side, of the scissors articulation, the actuating part of the blade 100 simultaneously being the shank thereof. The scissors spring 106 is arranged between the actuating parts and tends to spread these apart
25 from one another; this is only possible, however, when the scissors are pushed out into their operating position because, until then, the blade 104 rests, with its cutting-edge part, against the base of the channel 84. In the operating position of the scissors, the
30 articulation pin of the latter is at least approximately in alignment with the articulation bolt 80, and the articulated blade 104 is held in position against the base surface 3 of the lower shell 22 by the pressure of the scissors spring 106. When the scissors
35 are retracted again by means of their sliding button, the scissors close automatically by virtue of the blade 104 running onto the upper shell 20.

Draw-out utensils
(Figures 1, 2, 8, 9)

The lower shell 22 also contains utensils. A magnifying glass with a lens 120 and mount 122, which
5 is accommodated in a recess 124, can be seen in Figure 1. In the pushed-in position (Figure 2), a finger-engagement hollow 126 projects beyond the contour of the lower shell 22 to some extent.

In the space beneath the articulation, the
10 lower shell contains a roll-up measuring tape 130. In a manner known per se, the tape is wound onto a hub 132 which is provided with a self-locking device and prestressing spring 134, the self-locking device being released, and the measuring tape being drawn in, by
15 pressure on the release mechanism 136. In the drawn-in position, a cutout 138 of the lower shell makes it possible for the end of the measuring tape to be gripped (Figure 2).

Stationary utensils

20 (Figures 1, 2, 13)

Located in the lower shell is a lamp 140, which is fed by button cells 142 or rod-type cells 144 (Figure 13). The switch 142 is located beneath the magnifying-glass receiving means; the light passes out
25 through a transparent window 148 which has been introduced into the body of the lower shell. In the embodiment according to Figure 13, a miniature laser arrangement with associated optics 150, namely a so-called laser pointer, serving as a "pointing
30 implement", is also accommodated alongside the lamp. The switch 146 then, of course, has three positions: out, lamp on, laser pointer on. Battery exchange is made possible by the flap 152.

Removable utensils

35 (Figures 3, 10)

A ruler, which is usually provided with a scale in millimetres and/or inches and may then be referred to as a measuring rule, can also normally be found in

an office. In keeping with its nature, such a measuring rule should not be connected fixedly or movably to the hand-held implement. In the exemplary embodiment, it is provided that the measuring rule 160 can be removed
5 from a chamber 162. This measuring rule is advantageously also provided as a hole-puncher template:

The lower shell has a flat groove or rectilinear guide 164 formed above the die, and the
10 measuring rule has an L-shaped cross-section with a longer leg 166 (which is also provided with the graduated scale 168) and a shorter leg 170. The longer leg is dimensioned to be complementary to the rectilinear guide 164 and can be displaced therein. The
15 measuring rule has stop noses 172 at both ends. Moreover, in the shorter leg 170, it has a triangular notch 171 in the centre between the two stops 172. Finally, two further dies 174, matching the punch, are made in the measuring rule. When the measuring rule
20 rests against the lower shell 22 by means of either of the stop noses 172, the die 174 which is nearest in each case is congruent with the die 70 in the lower shell. The distance between the two dies 174 corresponds to the standard which is customary in the
25 country in question.

The border of a sheet 176 which is to be punched is, then, brought to rest against the shorter leg 170, the centre of said border being in alignment with the triangular notch 171. The first punching
30 operation takes place with the first stop nose resting against the lower shell; then the sheet 176 and measuring rule 170 are grouped together and displaced along the rectilinear guide until the other stop nose rests against the lower shell, and the second punching
35 operation is carried out. Therefore, although only one punch is provided, a double punching operation with a predetermined distance between the holes may

nevertheless be carried out using the hand-held implement.

Alternative hole-punching mechanism

(Figure 11)

5 Manipulation of the hole-puncher mechanism which has been described up until now is not quite optimum because the two shells project over the paper which is to be punched and therefore cannot be gripped to the full extent. The configuration according to
10 Figure 11, in which the sheet which is to be punched is pushed in from the other side, is therefore preferred. It goes without saying that the configuration of the bearing block has to be adapted correspondingly and the push-in slot 180 has to be provided by a step on the
15 upper and/or lower shell. In this case, of course, the template 160 has to be introduced in a mirror-inverted manner, as is indicated in Figure 11.

Alternative accommodation for utensils

(Figures 12 and 13)

20 In the embodiments which have been described up until now, the utensils, knife, scissors, staple remover and cutter, are all accommodated in the upper shell 20. This shortens the possible push-out path on account of the sliding buttons running against one
25 another and causes unnecessary widening of the upper shell, because it is possible to accommodate in each case two of these four utensils in the upper shell and to accommodate the other two in the lower shell, as illustrated in Figures 12 and 13. In this case, the
30 corresponding sliding buttons 190 run past one another. Whereas in Figures 1 to 11 the upper shell is considerably higher than the lower shell, the two shells are approximately of the same height in the embodiment according to the Figures 12 and 13.

35 In this variant, the mount 122 of the magnifying glass is provided with a hinge 121, with the result that the magnifying glass can be angled in order to inspect an article illuminated by the lamp 140.

Alternative utensil
(Figures 14, 15)

It goes without saying that the selection of utensils accommodated in the hand-held implement was made quite arbitrarily and depends largely on the intended use. Therefore, an adhesive-tape dispenser, for example, may be accommodated in place of the roll-up measuring tape, as is illustrated in Figures 14 and 15.

Integrally formed on the lower shell is a hub 200 on which a roll of adhesive tape 202 may be positioned after a resilient or lockable flap 201 has been opened. An outlet slot 204 permits the through-passage of the adhesive tape. The slot 204 is delimited at the top by the free border of a flap 208 with a toothing arrangement 206, on which the adhesive tape can be torn off. The remaining strip end then comes to rest on the bead 210. If the flap 208 is drawn outwards, it is possible to grip said strip end; when the flap is closed, the adhesive tape forms a loop, and the tendency of the latter to stick to the inside of the flap can be minimized by said flap being coated with Teflon or the like.

The following figures show a preferred embodiment with a number of variants.

The implement has an upper shell 300 and a lower shell 302, but these references are selected only in order to distinguish between the two shells, since they do not assume any particular spatial position for use. The two shells are located opposite one another in an essentially mirror-symmetrical manner and each have rounded contours which are symmetrical with respect to a longitudinal plane and to a transverse plane. The outer side of one of the shells may be flattened to some extent in order to prevent the implement from wobbling when it is set down on a table.

The two shells are separated by a peripheral slot, it being possible for the shells to be moved away

from one another at an end V referred to as the "front" in order to bring the stapling mechanism into the operating position, while the push-in slot E for the hole puncher is at the end H referred to as the "rear".

5 At this end, the upper shell is provided with a bevel A in order that the paper which is to be punched can also be pushed in when the implement is open. On the end sides (front and rear), the outer contour of the shells tapers to a very pronounced extent. The side surfaces S
10 are set back and essentially planar. The contour of the two shells is such that punching and stapling can readily be carried out with one hand and without having to set the implement down on a base, while, in the locked state, the shells can readily be held in the
15 hand as a handle for a tool. The implement comprises a series of utensils illustrated in Figures 16 and 17 as well as further utensils which will be clarified in the description in due course. A stapling device and a punching device are provided in the interior of the
20 implement which is illustrated in the closed state in Figures 16 and 17. The following are also provided: a knife 304, a cutter blade 306, a pointer 308, a magnifying glass 310, a staple remover 312, a pair of scissors 314, and a tape measure 316. Instead of the
25 pointer, it is also possible for a so-called laser pointer to be provided. The knife, cutter blade, scissors and staple remover are displaced outwards from the interior of the implement, and also drawn back again by means of slide-action locking bars 318.

30 The basic construction of the implement can be seen from Figures 18 to 20. A metallic "skeleton" with an upper part 320 and a lower part 322 forms the receiving means for, and/or parts of, the stapler and hole puncher and delimits spaces for receiving the
35 other utensils. The upper part and lower part are each provided with a plastic cap which is fastened at appropriate locations.

Three operating elements are located in the upper cap 324: a main button 326 for locking and unlocking the upper and lower parts, a stapler-activating button 328, and a magazine-unlocking button 5 330.

In the lower cap 332, it is possible to see a magnifying-glass release button 334, two microswitch buttons 336, 338, a disengaging button 340, a flap 342 which gives access to a battery compartment, a light 10 guide 344, and a flap 346 which permits emptying of the chamber 348 into which the punchings produced by the hole puncher pass. The tape measure 316 is provided with the conventional restoring mechanism (not shown) and with a braking lever 350 which can be displaced 15 manually into a relief position counter to the prestressing of the spring 351. As can be seen in Figure 19, the channel 352 which receives the knife 304 extends virtually over the entire longitudinal extent of the implement, while the channel 354 for the cutter 20 blade 306 is only virtually half as long; this provides space for the diameter of the tape measure 316, which in this way can achieve a draw-out length of, for example, 100 cm. The two button batteries 356 and a lamp 358 can also be seen in Figure 19, while the laser 25 pointer 360 is located behind the microswitches 336, 338.

Referring now to Figures 21 to 24, the stapler will be described first of all. The stapler is a so-called flat-clinch stapler, that is to say a stapler in 30 which first of all the staple is driven into the paper which is to be stapled, and the free staple ends are only folded over when the staple driver has reached its end position. Figure 21 shows the implement in the closed and locked state. The main spring 362 35 prestresses the upper part and lower part in the opening direction. Figure 22 shows the open implement, in the case of which, however, the staple magazine is not yet in the operating position. In Figure 23, the

staple magazine is released, and in Figure 24 the staple carrier is pushed out.

The stapling procedure will be explained taking Figure 23 as departure point.

5 The stapler is rendered operational by pressure being exerted on the button 328. The button is articulated at 364 and is prestressed into its rest position by the leg spring 366, in which rest position it engages, by means of two hooks 368, over two pins 430
10 (illustrated in Figure 25) which are provided laterally on the outer channel 370 in which the staple carrier 408 is guided. When the button is actuated, the outer channel is released and passes, under the action of the leaf spring 372, into the position according to Figure
15 23, where it strikes, by way of noses 374, against the end of slots made in the staple driver 376. The staple driver or the knife 376 is formed in one piece with the leaf spring 372.

 It should be noted that, in the position
20 according to Figures 22 and 23, the outer channel 370 rests against a stop 380 by means of one end 378. Accordingly, when the button 328 is actuated, the upper part 320 moves upwards instead of the outer channel moving downwards; however, since the implement is
25 generally not supported, but is held freely in the hand, the jolt produced by the fairly powerful leaf spring 372 is damped partly by the main spring 362 and partly by the hand itself. A separate damper is optional. A double transmission lever 384 for the flat-
30 clinch mechanism can be pivoted around a bearing 386 and is prestressed by a spring such that its longer ends 387 always rest against the upper part 320.

 In the lower part 322, the anvil 388 is supported on a web 389 and anchored thereon. Its
35 operation surface is located essentially flush with the upper side of the lower part. In the position illustrated in Figure 23, the anvil 388 is fully enclosed around the periphery by a plastic platform 390

which can be pivoted around an articulation 392 provided on the lower part and is pushed against a stop (not shown) by a compression spring 394. In this arrangement, the platform is supported on a blocking
5 angle 396 which, for its part, can slide parallel to the upper side of the lower part and is held in position against the anvil 388 by a compression spring 398. The upper side of that section of the platform 390 which encloses the anvil is higher than the operating
10 surface of the anvil by the length of the staple legs.

If a stapling operation is to take place, the paper which is to be stapled is introduced into the gap between the lower and upper parts and the implement is closed. The stapling head comes to be positioned on the
15 paper supported on the platform, with the result that, as the closure movement continues, it is pushed back into the upper part counter to the force of the leaf spring 372. In this process, the staple driver forces a staple out of the staple carrier and into the paper.
20 Consequently, the transmission lever 384 is pivoted; its pivot position is thus representative of the angle between the outer channel and upper part. When the lever has reached a position corresponding to the staple having been pushed out by the staple driver to
25 the full extent, it has displaced the upright legs 400 of the blocking angle, counter to the force of its prestressing spring 398, to such an extent that support is withdrawn from the platform 390; the latter is pushed down abruptly by the upper part, and the free
30 legs of the staple which project beyond the paper which has been introduced are folded over in the process. In this case, the outer channel automatically hooks into the hooks 368 of the button 328 again. For each stapling operation, this button thus has to be
35 reactivated. It goes without saying that this is not absolutely necessary: a latch-in recess, for example, could be provided for the button in order to hold the

latter in the released state for a number of stapling operations.

Mounted in the outer channel is a slide rod 402 on which there is seated a thrust spring 404 which, via the slide 406, pushes the staples contained in the staple carrier 408 forwards. If a locking means, which will be explained in detail below is released, the spring 404 pushes the staple carrier 408 outwards out of the outer channel 370 to such an extent that it can be drawn out and loaded with a new staple block; this position is represented in Figure 24.

The outer channel, staple carrier, slide rod, slides and staple block together form the staple magazine.

Figures 23a to 23c show, on a further-enlarged scale, the kinematics of the unlocking operation for the staple magazine.

Figures 24a to 24c show the interaction of the unlocking button 330 for the staple carrier with the fork-shaped extensions of the latter; fitted on the button 330, which can be pivoted around the articulation 331, are small bolts 333 which, in the event of pressure being exerted on the button, are lifted out of the hooks 434 of the staple carrier and consequently release the latter. When the staple carrier is pushed in again, the hooks automatically latch in again. The button 330 is prestressed into its rest and latch-in position by the spring 335.

The above described deactivation of the stapling mechanism serves primarily to avoid the situation where a staple is lost during every other actuation of the upper and lower shells, for example during hole punching or actuation of the scissors. The selected design in which the outer channel is set back in the upper part is advantageous insofar as the stiff stapler spring 372 is also deactivated thereby, which spring would otherwise counteract the actuation of the hole puncher or of the scissors. Furthermore, the

implement is compact in the closed state. However, there are, of course, other possibilities for deactivating the stapler: displacing the staple driver such that it no longer comes into contact with the staple located in the magazine, blocking the magazine advancement, blocking the relative movement between the upper part and staple magazine, setting back the upper part and magazine into the upper shell to such an extent that the driver no longer reaches the anvil, and, finally, displacing the anvil such that, in the closed position, the tip of the staple remains free.

The functioning of the hole puncher will now be explained with reference to Figures 21-24. Conventional hole punchers for use in the office are provided with two or more punchers, which are set to a specific spacing of the filing mechanism, while the implement according to the invention has only one punch. Since the implement is conceived, in particular, for use outside of the actual office, the hole-puncher function will be used whenever there is a file to hand in which the relevant paper is to be filed. The user, then, takes the paper which is to be filed and rests it on the filing mechanism and marks, e.g. with a pencil, the locations where holes are necessary, to be precise directly on the border of the sheet. An arrow or the like could be provided on the outside of the implement in order to mark the centre of the punch. However, due to the relatively large distance of the punch from the outer contour of the implement where such a marking would be provided, this results in inaccuracies. It is therefore provided that the sheet (or sheets) which is to be punched is introduced into the slot 410 with the marking downwards, the light guide 344 making it possible to see the marking from the outside; the light guide is provided with an arrow or the like which is in alignment with the punch axis. It goes without saying that the light guide need not necessarily be guided to the punch platform from below since, in a variant, it

could also project onto the paper from above (here, the terms "above" and "below", as has already been explained, relate only to the graphic illustration and not to the use position of the implement). In principle, the light guide 344 could also be replaced simply by a hole, through which one could see the paper which has been pushed in. However, it is preferred to design the light guide from transparent plastic, its cross-section preferably becoming larger towards the outside. To protect against scratching, its two ends are set back slightly. Lenticular curves which have an enlarging action could be integrally formed at one or both ends. The light guide is preferably rectangular in cross-section.

The punch 412 is guided rectilinearly in a hole-containing bracket 414 and a bore or a punched hole 416 of a block 418, which will be described in detail at a later point in the text. Force transmission to the punch 412 takes place by a stamped tongue 420 of the upper part, while said punch is carried back upwards by the outer channel; for this purpose, the punch is provided with a snap ring 422 introduced into a groove of the punch. This design saves space in comparison with the conventional design, in the case of which the punch is provided with a restoring spring.

Figure 25 shows an exploded view of the "skeleton" of the implement. The upper cap 324 and lower cap 332 are plastic parts, preferably injection moulded from impact-resistant plastic, while the rest of the parts of the skeleton are each manufactured as parts which have been formed by punching and bending, preferably using metal or chromium steel. The upper part 320 is bent at right angles three times on either side, this producing a central section and, adjoining this laterally, pairs of respectively parallel flanks 424/425, 427/429, which form the guide channels for the displaceable tools (scissors and staple remover). The central, planar section is provided with recesses and

deformations, the purpose of which will be explained at a later point in the text. The inner bent flanks 424 and 427 are extended to the rear ("rear" is the hole-puncher end) and are provided with aligned bearing bores. The outer channel 370 has an upside-down U-shaped cross-section and is provided with an angled tongue 426 on which the slide rod 402 is fastened; inwardly projecting lugs 401 for supporting the staple carrier are located at the front end. An aperture 428 permits the through-passage of the punch with its spring ring 422, which is pushed on above the aperture after the introduction of the punch with the result that it can pass into operative connection with the tongue 420, integrally formed on the upper part, in order for the punch to be actuated. The pins 430 interact with the stapler-release button 328. The rearward extension of the two U-legs is provided with bearing bores 432.

The staple carrier 408 is U-shaped in cross-section, and its U-legs are extended to the rear and provided with hooks 434 which interact with the bolt 333 of the button 330, as has been explained above.

The block 418 is a further part which has been formed by punching and bending. It supports the bearing journal 436 around which the outer channel and the upper part can be pivoted. The bearing journal 436 is arranged in projecting side walls 440, beneath which there is a free space for the introduction of paper which is to be punched. The vertical edges at the end of this free space form the stop 458 against which the paper can be positioned. The side walls are connected by a transverse metal plate 442, provided with the lower punch guide and arranged above the paper slot. The bracket 414 is fastened, e.g. spot welded, on the transverse metal plate. The block has a foot part 444 by means of which it is centred in the lower part, on which it is fastened, moreover, by means of spot welding or continuous joining. The configuration of the

upper borders of the block will be described below in conjunction with the locking mechanism.

The lower part 322 comprises two metal sheets which are angled in an upside-down U-shaped manner and of which the upper sheet-metal angle 446 has the die 448 for the hole punching, a recess 450 for the through-passage of the light guide 344 and the introduction of the block foot 444 and a through-passage opening for the spring 362, as well as an aperture 452 into which the platform 390 can be displaced. The configuration of the angled legs 453, 455 will be explained at a later point in the text in conjunction with the displaceable utensils.

The lower sheet-metal angle 454 is connected to the upper one, for example, by spot welding. It has an aperture 456 for the through-passage of the punchings of the hole puncher and the reception of the light guide, a set-back hollow 438 for supporting the main spring 362, mounting holes 460 for the block foot, and an aperture 462 which corresponds to the aperture 452. The main spring 362 is supported in the set-back hollow 438 (Figure 22), and the other end of said spring is supported on the outer channel, between the punch and the tongue 426; the spring is so short in comparison with its diameter that there is no need for any special measures against buckling of the spring. The two openings 464 in the upper sheet-metal angle and 466 in the lower sheet-metal angle permit the through-passage of the vertically bent part 400 of the blocking angle 396. The anvil 388, which consists of hardened steel, is pressed into an insert 468, which, for its part, is connected to the lower sheet-metal angle 454 by compression or some other means. The lower sheet-metal angle is narrower than the upper one, with the result that a guide channel for receiving further displaceable tools (knife, cutter) is delimited in each case between the angled legs 457, 459 of the inner sheet-metal angle and 453, 455 of the outer sheet-metal angle. The lower

sheet-metal angle has, in the angled leg 459, a cut-out 470 which releases the lateral space necessary for the tape measure.

It can be gathered from the above description
5 that the upper part has a channel delimited by the angled flanks on either side of the space necessary for the stapling mechanism, and that the lower part also has delimited channels on both sides of the pairs of legs.

10 It can be seen that, both in the upper shell and in the lower shell, the exposed, visible, outer side surfaces of the metal parts form angled sections which delimit the inner channels for the utensils and protect the latter towards the outside. Consequently,
15 at the same time, the stability of the implement can be increased and minimization of the width of the components can be achieved.

It will now be described, with references to Figures 26 to 30, how the two shells in this exemplary
20 embodiment are locked and unlocked with respect to one another. When the implement is closed - Figure 28 - the button 326, which, for unlocking purposes, is first of all pushed in counter to the force of a spring tongue 472 and is then displaced to the rear, that is to say
25 in the direction of the hole puncher, projects to a very slight extent out of the upper shell. The tongue 472 is integrally formed on a leaf spring 474 which is arranged on the upper side of the upper part 320 and is held, and guided, there by tabs 475 which engage over
30 it. Projections 476 on the upper edges of the block 418 engage, in the locked state (Figures 28 and 30), over lateral lugs 465 of the leaf spring 474, which are released from the projections when the button is displaced in the opening direction. When the leaf
35 spring is displaced, lugs 478, which are integrally formed thereon and are provided at their ends with a downwardly directed nose, run over tines 463 (marked in Figure 25) which are integrally formed on the upper

part, with the result that the leaf spring can only assume two stable positions: locking end position or unlocking end position. A tongue 480 is cut out at the end which is directed away from the button 326, said
5 tongue being angled downwards and, in the unlocking end position, latching into a recess 479 of the upper part 320. Thus, as soon as the implement is opened, the leaf spring 474 cannot be displaced into the locking end position again. It is only when the two shells have
10 been brought into the closed position shown in Figure 27 that the protrusions 482, integrally formed on the block, lift the tongue 480 to such an extent that it is released from the recess 479 and the implement can be locked by the button being displaced back; the second
15 recess for the second protrusion 428 balances the lifting of the tongue 480. The solution presented here is preferred on account of its simplicity. Alternatively, the blocking means could also be dispensed with and be replaced by an automatic locking
20 means on the block, said locking means taking effect as soon as the button 326 - even in the case of the implement being opened - is displaced into the closed position. In this case, however, it would be necessary to block the stapler-release button 328, on the one
25 hand, and the main button or locking button 326, on the other hand, with respect to one another: if the implement is locked when the stapling mechanism is in the released state, a loose deformed staple remains in the space above the anvil and, if stapling material is
30 still located between the upper and lower shells, then, when the implement locks automatically, said upper and lower shells could be spread apart to such a pronounced extent that it is no longer possible to open the implement. It should also be noted that although, when
35 the implement is closed, it is possible to push the buttons 328 and 330, the staple magazine and the staple carrier latch in again when the buttons are released,

and so the design illustrated in Figure 26 remains intact when the implement is opened.

According to Figure 24, the release button 328 for the stapling mechanism is articulated at the top. However, the alternative design illustrated in Figures 31 to 33 is preferred. There, the button moves "rearwards" rather than "downwards". The button 328 here has a stop surface 484 by means of which it rests against an abutment surface of the link 486, which is prestressed into the closed position by a U-shaped leaf spring 488. The link 486 is articulated at 490 and engages beneath the pins 430 of the outer channel by means of hooks 492. As before, the link locks automatically in the case of each stapling operation.

In the lateral guide channels formed by the flanks 424/425 and 427/429 in the upper part 320 and by the legs 455/457 and 453/459 in the lower part 322, the knife, cutter, staple remover and scissors are guided in a longitudinally displaceable manner via corresponding guide shanks 493, 494, 495 and 496, respectively, which are integrally formed on said utensils or injection-moulded around them and consist of metal or plastic or plastic-encapsulated metal. Since the guides are shortened to a pronounced extent in the corner regions by the heavily rounded outer contours of the implement, but the highest possible stability of the tool guides is necessary, in particular, in the pushed-out use positions, the utensils are additionally guided via sliding blocks 497, which slide in guide slots 498.

The sheet-metal sections on either side of the slots are bridged, at locations where stability requires it, by connections 499 which are pressed out inwards, but do not obstruct the guide function for the sliding blocks. As will further be explained at a later point in the text, the sliding block of the scissors has a rear-engagement means 524 and, for this reason, the scissors cannot, like the three other utensils, be

pushed into the relevant channel; rather, the rear-engagement means 524 is introduced through the branch channel 433 which can be seen in Figure 25.

5 Provided in the guide shanks 493 to 496 of the utensils are recesses 503 in which there is arranged a slide-action locking-bar mechanism for displacing and arresting the utensils.

10 The slide-action locking bars 318 may be connected to the slide-action locking-bar mechanism via direct connecting webs 500, which renders necessary corresponding longitudinal slots 505 in the outer channel boundaries 425, 429, 453 and 455, on which the catches 507 for the utensils may also be arranged. Alternatively, it is also possible for such slots to be
15 provided in the base surfaces 511 of the upper and lower shells and - as is shown in Figures 38/39 - for the connecting webs to the slide-action locking bars to be routed around the outer channel boundaries, e.g. 453, in the form of a U in the region of the separating
20 joint between the upper part and lower part.

 The intention is for each utensil to be blocked both in the inner and in the outer end positions; for unblocking, the user displaces the respective slide-action locking bar in a direction perpendicular to the
25 extent of the slot, either "upwards" or "downwards" (corresponding catches can be seen in Figure 25) or "inwards". In the case of the first-mentioned design, the implement may be of a somewhat thinner construction, but, for all that, the slide-action
30 locking bars are less easy to operate. For the simplest possible operation, a design in which disengagement takes place by the slide-action locking bars being pushed inwards is thus preferred. In order that the side-action locking bars are not pushed in
35 inadvertently, they are located approximately flush with the outer contour of the shell in the relevant region.

An example of the last-mentioned design is represented in Figures 34 to 37: the button 318 is seated on a pivotable lever 500 on which there is integrally formed a leaf spring 502 which bears a locking-bar block 504. The block 504 is released from the catch 506 by the button being pressed downwards on one side. The leaf spring ensures that the block latches in automatically in the end positions. The plastic button 318 is integrally formed, e.g. injection-moulded, on the metallic lever, and the assembly is designed such that it can be mounted through the slot 505 from the outside. In the case of the design illustrated in Figures 38 and 39, the button 318 is seated on a detent 508 which latches in under prestressing by a leaf spring 510 (Figure 38) and is lifted out of this latch-in position into the released position (Figure 39). As can be seen, the side walls here, e.g. 453, do not have any slots; rather, the connection between the button and utensil is routed around the free edge on the outside. In addition to these arresting means for the individual utensils, an additional safety locking means could be provided, in particular for those utensils which could cause injury if pushed out unintentionally, and this additional safety locking means blocks such utensils individually or in groups. Figures 18 and 40 give a schematic illustration of such an additional safety locking means in the form of a rocker 512 which is mounted in the lower part, is fork-shaped and engages, by means of its arms 513, into the guide channels for the knife and the cutter, with result that these utensils are blocked in their inner end position. The utensils are unblocked by pressure being exerted on the button 340, and can be pushed out by means of their side-action locking bars.

Before different variants of pairs of scissors are explained, some remarks which apply to all variants may be of use. It is in no way immaterial as to which channel should contain the scissors. The scissors are

to be designed and positioned such that, rather than running onto the shells or even running into the slot of the hole puncher, the cut material is guided past the shells. This is initiated by specially designed
5 directing flanks which are provided on the scissor blades and are adapted to the form of the implement. However, the cut material, in particular paper, hangs down after cutting, and the selected arrangement of the scissors in the upper shell ensures that the path over
10 the upper shell over which the cut material has to run over a relatively large width gives a small height difference, and the paper therefore does not abut laterally in the region of the channel with the stapler remover either. Conversely, for running over the lower
15 shell, although there is a large height difference to be overcome, the width against which the lower section of paper could butt is small. It goes without saying that the arrangement of the scissors and the design of the directing surfaces on the scissor blades have to be
20 adapted in each case in accordance with the orientation thereof.

Figures 41 to 45 show a first, preferred variant of the scissors, Figures 44 and 45 respectively being sections along the lines A-A and B-B of Figure
25 42. The scissors have a guided blade 520 and a slave blade 522 which is articulated on said guided blade at 521. The blade 520 is not just guided, like the other utensils, via a straightforward guide block, but via one with a rear-engagement means, because the blade 520
30 cannot be supported on the outer wall of the guide channel. This rear-engagement block 524 can be seen in Figure 44. Since there has to be a connection to the relevant slide-action locking bar from that side of the blade 520 which is directed away from the rear-
35 engagement means, the blade 522 is correspondingly short. In the pushed-out position, it anchors automatically on the lower shell, for example, as is illustrated, by means of a spring-prestressed hook 526

which, when the scissors are pushed in, is released from the lower shell and positioned in a corresponding recess 528 of the blade 520. An aperture 527 in the lower shell permits the through-passage of the hook 5 526; the opening 529 also serves for this purpose. A wire spring 523 prestresses the blade 522 into the open position. The scissors are actuated by the two shells being pushed together and released. In order to achieve the best possible deflection of the cut material, the 10 scissors can be extended to such an extent that the scissors articulation is not congruent with the pin 436, with the result that there has to be a relative displacement between the blade 522 and the lower shell 302 during cutting.

15 In the case of the variant illustrated in Figures 46 to 48, the slave scissor blade 522 is virtually as long as the guided blade, but is designed to be so narrow that the connection to the slide-action locking bar of the scissors can still be guided past 20 it. The wire spring 530 prestresses the two blades in the open direction and holds the blade 522 in position against the lower part. Here too, the slave blade 522 is obviously displaced along the lower shell during cutting.

25 A further variant of the scissors is represented in Figures 49 to 53. Here, the shearing movement is not produced by the shells being displaced; rather, the slave scissor blade 522 is actuated by the thumb, preferably with the implement in a closed state, 30 while the fingers hold the body of the implement. The blade 522 is provided with a rotatable thumb rest 523, which, at the same time, holds the two blades locked together in the pushed-in position and pushed-out position. A wire spring 534 prestresses the two blades 35 into the open position. The thumb rest 532 can be brought into, and out of, the operating position manually or else can swing out automatically when the outer end position is reached, while it is put back in

position manually for the operation of pushing the scissors into the implement. A spring-prestressed blocking lever 536, provided on the guided blade 520, secures the scissors in the pushed-out position once
5 the thumb rest has been swung up and consequently pivoted out of the continuation 538. When the thumb rest is swung down, it engages into the continuation 538, as result of which the blocking lever 536 is lifted and the locked scissor blades are consequently
10 released in order to be pushed into the implement.

Figures 54-57 show details of the blade holder for the cutter blades. Figures 54 and 55 show a first embodiment. The blade holder 552, which is preferably manufactured from plastic, runs in a support 550 which
15 is preferably manufactured from metal, has a C-shaped cross-section and, when the blade holder is pushed out, under the action of a compression spring, is also extended by a predetermined distance. The support here serves as a means for supporting the blade holder and
20 for securing the double blade 556 which can be fitted, by means of its centring hole 558, onto the pin 554 when, for the purpose of exchange or rotation of the double blade, the blade holder 552 is pushed out beyond the latch-in position of the support 550 to such an
25 extent that the double blade is freed and can be laterally removed and introduced. In this embodiment, three latch-in positions are provided for the slide-action locking bar: retracted position, cutting position, blade-exchange position.

30 In the variant according to Figures 56 and 57, the blade exchange takes place from the front. In this case, the double blade 556 latches in automatically in the bevelled pin 560 when it is pushed into the blade holder 561. In order to draw out the blade, the pin 560
35 can be ejected from the centring hole 558 by means of the button 562 and the blade can be removed to the front.

Figures 58 to 61 show details of the staple remover 312. It comprises a push-in nose 570 which, on the closed side of a staple 571 which is to be removed, is pushed between said staple and the stapled bundle of paper. Progressively higher webs 572 which are integrally formed on at the sides force the staple legs out of the paper. An integrally formed tab 574 which has been bent out is positioned over the spine of the staple and prevents a situation where the staple has to be drawn out on one side and then laboriously removed by hand. In the opening region of the guide channel which receives the staple remover, two small pins 576 are fastened on either side of the tab 574, and these pins detach the staple from the staple remover when the latter is pushed back into the upper shell. On its outer side directed towards the outer channel boundary, the staple remover is preferably bevelled such that, in the case of the slight oblique positioning of the implement, said staple remover can be positioned flatly on the paper from which the staple is to be removed, as can be seen from Figure 70.

Figure 62 illustrates, in partial section, a variant in which a pointer 580 which comprises sleeves which can be drawn out telescopically is provided instead of the lamp and/or laser pointer. A release button 592, held in a state in which it is prestressed into its rest position by means of compression spring 590, engages behind the sleeves 594 and, upon actuation, pushes them outwards to such an extent that the knob 596 on the inner most sleeve can be gripped and drawn out. Alternatively, the pointer could also be arranged on a carriage which can be pushed out by means of a button, preferably counter to the force of a restoring spring, to such an extent that the knob 596 can be gripped.

Figures 63 to 65 show greater details of the construction in the region of the magnifying glass. Two lugs 600 are angled inwards from the legs 457 and 459,

these lugs serving to guide the rear extension of the magnifying-glass frame 602. This extension is non-symmetrically fork-shaped with a wider leg 604, the underside of which has a recess of partially circular cross-section - the laser pointer 360 is located there - and with a narrower leg 606. The batteries 356 are located between the two legs; the spring which prestresses the magnifying glass into the open position acts on the wider leg, but, for better clarity, is not illustrated. The locking button 334 by means of which the magnifying glass is secured in the lower shell is arranged above the magnifying glass. A transparent insert 608 which permits the laser and/or lamp light to pass through is located beneath the magnifying glass.

Figures 66 to 69 show details of the chamber 348 for the punchings and of the access flap 346 for emptying the chamber. In contrast with hole punchers for use in the office, the volume of this chamber is relatively small, with the result that the user may well forget to empty the chamber at the correct time. In order to avoid overfilling, provision is made for the user to be given a signal when the chamber should be emptied.

Figure 66 shows a cross-section of the closed chamber. Integrally formed on the lower cap 332 is a chamber housing 620 on which the flap 346 is articulated. The flap is, for its part, provided with upright walls which, together with the chamber housing, prevent punchings from being able to pass into the interior of the lower shell in an uncontrolled manner. The flap 346 has a double latch-in locking means. In its closed position, it latches in, by means of small protrusions 622, on the inwardly jutting borders 624 of the chamber housing. If the pressure loading within the chamber 348 becomes too high, this first locking means yields and the flap 346 opens into the position according to Figure 67, in which position the flap, however, is locked again, namely by larger protrusions

626. The retaining force of the latter has to be overcome manually. The slightly opened position of the flap, in which no punchings have yet been released, signals to the user that the chamber should be emptied
5 as soon as possible. Figures 68 and 69 respectively show a cross-section and longitudinal-section of this emptying position of the flap 346.

It goes without saying that a snap-in or displaceable cover could also be provided instead of a
10 swing-out closure, but in this case the advantageous signalling action would no longer be provided.

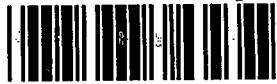
Finally, Figure 70 shows a further variant, in which the upper shell is designed as a lever which engages between flanks of the lower shell and, in the
15 locked state, is flush with the contours thereof. Front and rear slots permit the introduction of paper which is to be stapled or to be punched.

It goes without saying that, again, the stapling parts and hole-puncher parts, as are
20 illustrated in Figures 21-24, are accommodated in the lever 700. The utensils, e.g. scissors 706, staple remover 708, etc., are located in the upright sides 702, 704.



Patent Claims

1. Multipurpose hand-held implement, in particular for office work, having a first component and a second
5 component which are connected movably to one another and can be moved between a first position, in which they form together an elongate, essentially cuboidal body, and a second position, in which access can be gained to a free space between the two components,
10 means being provided for securing the components in the first position in a manually releasable manner.
2. Hand-held implement of the pocket-knife type, comprising a first component, which contains at least one tool or tool part, and a second component, which
15 contains at least one tool or tool part, it being possible, for actuating at least one tool, for the two components to be moved in a guided manner relative to one another and to be brought into a closed position, in which the two components, with essentially congruent
20 contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner.
3. Combined implement having a hole puncher and a stapler, comprising:
25 - a first component with functional elements of the hole puncher and of the stapler,
- a second component which contains the other functional elements of the hole puncher and of the stapler and can be moved, relative to the first com-
30 ponent, out of an open position, in which the two components are spaced apart by a distance sufficient for the insertion of paper which is to be stapled or punched, counter to the prestressing of a spring into a closed position, in which the two components, with
35 essentially congruent contours, form a compact, essentially closed body, and means being provided for securing the components in the closed position in a manually releasable manner.



4. Combined implement having a hole puncher and a pair of scissors, comprising:

- a first component with functional elements of the hole puncher,

5 - a second component which contains the other functional elements of the hole puncher and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper
10 which is to be punched, counter to the prestressing of a spring into a closed position, in which the two components form, with essentially congruent contours, a compact, essentially closed body, means being provided for securing the components in the closed position in a
15 manually releasable manner, and the scissors being accommodated in one of the components and being displaceable out of this position into a functional position, in which they can be actuated by means of relative movement of the two components.

20 5. Combined implement having a stapler and a pair of scissors, comprising:

- a first component with functional elements of the stapler,

- a second component which contains the other
25 functional elements of the stapler and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper which is to be stapled, counter to the prestressing of
30 a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, and the scissors being
35 accommodated in one of the components and being displaceable out of this position into a functional position, in which they can be actuated by means of relative movement of the two components.



6. Combined implement having a stapler and a tool, comprising:

- a first component with functional elements of the stapler,

5 - a second component which contains the other functional elements of the stapler and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper
10 which is to be stapled, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a
15 manually releasable manner, and the tool being accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.

20 7. Combined implement having a hole puncher and a tool, comprising:

- a first component with functional elements of the hole puncher,

- a second component which contains the other
25 functional elements of the hole puncher and can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by a distance sufficient for the introduction of paper which is to be punched, counter to the prestressing of
30 the spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, and the tool being
35 accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.



8. Combined implement having a pair of scissors and a tool, comprising:

- a first component,
- a second component which can be moved, relative to the first component, out of an open position, in which the two components are spaced apart by an actuating distance, counter to the prestressing of a spring into a closed position, in which the two components, with essentially congruent contours, form a compact, essentially closed body, means being provided for securing the components in the closed position in a manually releasable manner, the scissors being accommodated in one of the components and being displaceable out of this component into a functional position, in which they can be actuated by means of relative movement of the two components, and the tool being accommodated in one of the components and being displaceable out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.

9. Combined implement according to Claim 3 or 6 or 7, in the case of which scissors are accommodated in one of the components and they can be displaced out of this component into a functional position, in which they can be actuated by means of relative movement of the two components.

10. Combined implement according to Claim 3 or 4 or 5 or 9, in the case of which a tool is accommodated in one of the components and it can be displaced out of this component into a functional position, in which the body, in its closed position, forms the handle for manipulating the tool.

11. Implement according to one of Claims 1 to 10, in the case of which each of the components has an elongate, essentially cuboidal configuration.

12. Implement according to Claim 11, in the case of which each of the components is a shell-like hollow body.



13. Implement according to Claim 11, in the case of which the components are designed as hollow bodies which are delimited by a base surface, a top surface, two side surfaces and two end surfaces.
- 5 14. Implement according to Claim 13, in the case of which the components are shaped essentially symmetrically, and their base surfaces are directed towards one another.
15. Implement according to Claim 14, in the case of
10 which the base surfaces are symmetrical with respect to two planes of symmetry, which run parallel to the side surfaces and end surfaces and are congruent with respect to one another.
16. Implement according to one of Claims 1 to 10,
15 in the case of which the two components are connected via an articulation.
17. Implement according to Claim 16, in the case of which the articulation axis runs transversely with respect to the side surfaces of the components.
- 20 18. Implement according to Claim 17, in the case of which the articulation is arranged in the vicinity of an end surface of one of the components.
19. Implement according to Claim 18, in the case of which one of the components has a bearing block which
25 extends in a cavity of the other component, where the articulation is arranged.
20. Implement according to one of Claims 1 to 10, in the case of which one of the components has at least one recess into which at least part of the other
30 component can be displaced.
21. Implement according to Claim 1 or 2, in the case of which the components are prestressed into their second or open position by a spring arrangement.
22. Implement according to one of Claims 3 to 10 or
35 21, in the case of which the open position is defined by a stop arrangement.
23. Implement according to Claim 22, in the case of which the stop arrangement can be deactivated.



24. Implement according to one of the preceding claims, in the case of which outer contours of the components are rounded.

25. Implement according to Claim 24, in the case of
5 which the outer contour of one of the components has a flattened section.

26. Implement according to one of Claims 1 to 10,
in the case of which each component has a base surface
which is located in one plane, essentially planar side
10 surfaces which extend at right angles thereto, and top
and end surfaces which have rounded contours.

27. Implement according to Claim 26, in the case of
which the side surfaces are set back with respect to
the contours of top and end surfaces.

15 28. Implement according to Claim 27, in the case of
which operating elements which are essentially flush
with the contours of the top and end surfaces are
arranged on the side surfaces.

29. Implement according to Claim 26, in the case of
20 which, in the first or closed position, the base
surfaces of the two components are directed towards one
another, their contours are congruent, and a peripheral
gap is provided between the two components.

30. Implement according to one of Claims 1 to 10,
25 in the case of which the two components are connected
by a parallel guide.

31. Implement according to one of Claims 1 to 10,
in the case of which each component comprises a metal
insert on which a plastic covering cap is fastened.

30 32. Implement according to Claim 31, in the case of
which at least one of the inserts is a sheet-metal part
which has been formed by punching and bending.

33. Implement according to Claim 31 or 32, in the
case of which the at least one insert comprises side
35 walls of the relevant component.

34. Implement according to Claim 33, in the case of
which the at least one insert comprises a first, cross-
sectionally U-shaped sheet-metal angle, which delimits



a relatively narrow inner space, and a second, cross-sectionally U-shaped sheet-metal angle, which delimits a relatively wide inner space, the sheet-metal angles being inserted one inside the other such that their angled legs delimit channels on either side of the narrow inner space.

35. Implement according to Claim 34, in the case of which the U-base of the second sheet-metal angle forms a base surface of the relevant component.

10 36. Implement according to Claim 33, in the case of which the at least one insert comprises a single-piece sheet-metal part which is angled in the form of a U, the angled inner flanks of which are bent outwards at right angles, bearing surfaces being formed in the process, and outer flanks being bent back at right angles from the bearing surfaces, with the result that an outer and an inner flank delimit a channel in each case.

20 37. Implement according to Claim 36, in the case of which the bearing surfaces are located in a base surface of the relevant component.

38. Implement according to Claim 34 and Claim 36, in the case of which one component has an insert according to Claim 34 and the other component has an insert according to Claim 36.

39. Implement according to Claim 38, in the case of which the channels of the two inserts form guides for utensils.

40. Implement according to Claim 39, in the case of which complementary shanks of the utensils are received in the guides.

41. Implement according to Claim 40, in the case of which the angled legs of the inner sheet-metal angle have guide slots for sliding blocks of shanks.

35 42. Implement according to Claim 40 or 41, in the case of which the inner flanks have guide slots for sliding blocks of shanks.



43. Implement according to Claim 40, in the case of which the shanks are connected to slide-action locking bars which are accessible from the outside.
44. Implement according to Claim 43, in the case of
5 which the slide-action locking bars define latch-in positions for the shanks.
45. Implement according to Claim 43 or 44, in the case of which the slide-action locking bars are connected to the shanks through slots in the outer
10 angled legs or in the outer flanks.
46. Implement according to one of Claims 39 to 45, in the case of which the channels open outwards and the utensils can be pushed outwards out of a storage position within the relevant channel, through the opening,
15 into a use position.
47. Implement according to Claim 38, in the case of which the insert according to Claim 34 bears a bearing block which is articulated on the insert according to Claim 36 via a bearing bolt.
- 20 48. Implement according to one of Claims 1 to 10, in the case of which the means for securing the components in the first or closed position are arranged on the components themselves.
49. Implement according to Claim 48, in the case of
25 which the means for securing in the second or open position are displaced out of regions of the implement which have to be accessible for the use of said implement.
50. Implement according to Claim 48 or 49 having a
30 bar-type locking mechanism.
51. Implement according to Claim 50, in the case of which the bar-type locking mechanism can be unlocked manually.
52. Implement according to Claim 51 having a
35 manually actuatable locking-mechanism switch.
53. Implement according to Claim 52, in the case of which the locking-mechanism switch is arranged in a top wall of one of the components.



54. Implement according to one of Claims 48 to 53, in the case of which the components are connected via an articulation in the vicinity of one end of the components, and the securing means are arranged in a location remote from the articulation.
55. Implement according to Claim 54, in the case of which the securing means are arranged in the vicinity of the other end of the implement.
56. Implement according to Claim 54, in the case of which the securing means are arranged in the vicinity of the centre of the implement.
57. Implement according to Claim 50, in the case of which the bar-type locking mechanism can be latched in a locked position and in an unlocked position.
58. Implement according to Claim 57, in the case of which the bar-type locking mechanism can only be brought into the locked position when the two components are located in the first or closed position.
59. Implement according to Claim 50, in the case of which the bar-type locking mechanism comprises a displaceable locking bar in one of the components and a catch in the other component.
60. Implement according to Claim 59, in the case of which the locking bar can be displaced in a guided manner.
61. Implement according to Claim 60, in the case of which the locking bar is formed by a leaf spring.
62. Implement according to Claim 61, in the case of which an actuating button is provided on a first cut spring tongue of the leaf spring.
63. Implement according to Claim 62, in the case of which, in the unlocked position, a second cut spring tongue engages into a latch-in opening by means of an angled section.
64. Implement according to Claim 63, in the case of which the catch is assigned a continuation by means of which the angled section, in the first or closed position, can be pushed out of the latch-in opening.



65. Implement according to Claim 52, in the case of which the bar-type locking mechanism locks automatically when the locking-mechanism switch has been brought into the locked position and the
- 5 components are brought out of the second or open position into the first or closed position.
66. Implement according to Claim 65, predetermined functions of the implement being deactivated when the locking-mechanism switch has been brought into the
- 10 locked position.
67. Implement according to Claim 66, in the case of which the locking-mechanism switch is blocked in the unlocked position when the predetermined functions are activated.
- 15 68. Implement according to one of Claims 1 to 10, in the case of which utensils are arranged in the components and can be displaced out of the components into a use position from a storage position, in which they are essentially accommodated in the components.
- 20 69. Implement according to Claim 68, in the case of which the utensils are mounted rotatably in the components and are arranged such that they can be swung out.
70. Implement according to Claim 69, in the case of which axes of rotation of the utensils are parallel to
- 25 the axis of an articulation connecting the two components.
71. Implement according to Claim 70, in the case of which at least one utensil is mounted on the articulation.
- 30 72. Implement according to Claim 68, in the case of which utensils are mounted displaceably in the components.
73. Implement according to Claim 72, in the case of which utensils can be displaced parallel to a longitudinal
- 35 tudinal extent of the components.
74. Implement according to Claim 73, in the case of which the components have end surfaces with opening



slots through which the utensils can be displaced into their use position.

75. Implement according to Claim 68, in the case of which a number of utensils are accommodated parallel to one another in the components.
76. Implement according to Claim 73, in the case of which utensils are arranged such that they rest against inner sides of top and/or side surfaces of the components.
77. Implement according to Claim 72, in the case of which utensils are provided with a guide shank at their end which is at the rear in the push-out direction.
78. Implement according to Claim 77, in the case of which the components have longitudinal guides for the guide shanks.
79. Implement according to Claim 78, in the case of which at least one of the longitudinal guides extends essentially over the length of the relevant component.
80. Implement according to one of Claims 68 to 79 having stops which define the use positions of the utensils.
81. Implement according to Claim 68, in the case of which utensils can be removed from the components.
82. Implement according to Claim 72 or 81, in the case of which the components have channels into which utensils can be pushed.
83. Implement according to Claim 82, in the case of which the channels are accessible via push-in slots on end surfaces of the components.
84. Implement according to Claims 77 and 81, in the case of which the utensils are connected releasably to their guide shanks.
85. Implement according to Claim 68, in the case of which utensils have broad sides which are mounted in the components, essentially parallel to the side surfaces of said components.
86. Implement according to Claim 68, in the case of which utensils have broad sides which are mounted in



the components, essentially parallel to the base surfaces of said components.

87. Implement according to Claims 76 and 85, in the case of which a free space is provided between the
5 utensils.

88. Implement according to Claim 68, in the case of which utensils are accommodated in the two components.

89. Implement according to Claim 81, in the case of which the utensils are provided with grip hollows.

10 90. Implement according to one of Claims 68 to 89, in the case of which storage compartments which can be swung out of one or both of the components are provided.

91. Implement according to Claim 68, in the case of
15 which utensils are spring-prestressed into their use position.

92. Implement according to one of Claims 68 to 91, in the case of which utensils can be arrested in their storage position.

20 93. Implement according to Claim 92, in the case of which the arresting means can be released manually.

94. Implement according to Claim 93, in the case of which arrested utensils are assigned operating elements via which the arresting means can be released.

25 95. Implement according to Claim 94 having operating elements in top and/or side surfaces of the components.

96. Implement according to Claim 68, in the case of which utensils have operating elements running in
30 slots.

97. Implement according to Claim 96, in the case of which a plurality of operating elements are assigned a common slot.

98. Implement according to Claim 95, in the case of
35 which the slots are arranged in base surfaces of the components.

99. Implement according to Claim 95, in the case of which the slots are arranged in side surfaces.



100. Implement according to Claim 99, in the case of which the side surfaces are set back.

101. Implement according to Claim 100, in the case of which the operating elements are essentially flush
5 with that contour of the relevant component which delimits the set-back hollow.

102. Implement according to Claim 101, in the case of which the contour of operating elements is complementary to the contour which delimits the set-
10 back hollow.

103. Implement according to Claim 99, in the case of which the two components have set-back side surfaces which are flush with respect to one another and each have a slot.

15 104. Implement according to one of Claims 1, 2, 4, 7 or 8, in the case of which one of the components has functional elements of a stapler and the other component has the rest of the functional elements of the stapler.

20 105. Implement according to one of Claims 3, 5, 6, 9, 10 or 104, in the case of which a first component has a staple magazine and a staple driver, and a second component has an anvil for folding over the ends of ejected staples.

25 106. Implement according to Claim 105, in the case of which the two components are connected by an articulation in the vicinity of one of their ends, and the staple driver and anvil are arranged in the vicinity of the other end.

30 107. Implement according to Claim 105 or 106, in the case of which the staple magazine is arranged displaceably in the first component.

108. Implement according to Claims 106 and 107, in the case of which the staple magazine can be pivoted
35 around the axis of the articulation.

109. Implement according to Claim 107 or 108 having a spring arrangement which prestresses the staple magazine in the direction of the anvil.



110. Implement according to Claim 109, in the case of which the staple magazine can be locked in the first component counter to the spring prestressing in a manually releasable manner, and the stapler is
5 deactivated in this position of the staple magazine.
111. Implement according to Claim 107, in the case of which end positions of the staple magazine are defined by stops.
112. Implement according to Claim 111, in the case
10 of which the stop for the operating end position of the staple magazine can be deactivated manually.
113. Implement according to Claim 112, in the case of which a deactivating locking bar is arranged on the staple magazine.
- 15 114. Implement according to Claim 110, in the case of which a stapler-release button is provided.
115. Implement according to Claim 110 or 114, in the case of which the staple magazine is locked automatically in the deactivated position in the case
20 of each stapling operation.
116. Implement according to Claim 114, in the case of which the stapler-release button is accessible in the vicinity of one end of the implement.
117. Implement according to Claim 116, in the case
25 of which the release movement of the stapler button has a component in the direction of the other end of the implement.
118. Implement according to Claim 115, in the case of which the staple magazine has lateral continuations
30 which can be gripped by locking hooks.
119. Implement according to Claim 105, in the case of which, in the operating region of the stapler, the first component has free spaces in order to avoid damage to stapling material.
- 35 120. Implement according to Claim 110, in the case of which the stapler can be activated only in the second or open position of the components.



121. Implement according to Claim 105, in the case of which the staple magazine comprises an outer channel, a staple carrier guided therein, and a spring-loaded staple slide, and the staple carrier can be
- 5 locked in the first component.
122. Implement according to Claim 121, in case of which the staple carrier can be released manually from the locked state.
123. Implement according to Claim 122, in the case
- 10 of which the staple carrier is locked automatically when it is pushed into the outer channel.
124. Implement according to Claim 105, in the case of which the stapler is designed as a flat-clinch stapler.
- 15 125. Implement according to Claim 110, in the case of which the second component has a stop against which the staple magazine rests in the second or open position, and, when the stapler is activated, the first component is displaced relative to the staple magazine.



126. Implement according to Claim 1, 2, 4, 7 or 8, in the case of which a stapler is arranged in the components.

127. Implement according to Claim 126, in the case
5 of which a staple dispenser is arranged in the first component and an anvil is arranged in the second component.

128. Implement according to Claim 127, in the case
10 of which the anvil and a ram of the staple dispenser are arranged in the vicinity of an end surface located opposite an articulation.

129. Implement according to Claims 127 and 128, in
15 the case of which the staple dispenser comprises a staple magazine which is intended for receiving a staple block and is arranged movably in the first component.

130. Implement according to Claim 129, in the case
20 of which the staple magazine is mounted such that it can be pivoted concentrically with respect to the articulation.

131. Implement according to Claim 129, in the case
25 of which a magazine spring which prestresses the staple magazine in the direction of the second component is provided.

132. Multipurpose hand-held implement according to
Claim 131, in the case of which a magazine stop which defines an outer position of the staple magazine is provided.

30 133. Implement according to Claims 128 and 132, in the case of which, in the outer position, the ram is extended out of the staple magazine.

134. Implement according to Claim 132, in the case
of which the magazine stop can be deactivated manually.

35 135. Implement according to Claim 134, in the case
of which deactivation takes place via a locking bar arranged on the staple magazine.



136. Implement according to Claim 127, in the case of which means for activating and deactivating the staple dispenser are provided.

137. Implement according to Claim 136, in the case
5 of which the means can be activated and deactivated manually via an actuating element.

138. Implement according to Claims 131 and 136, in the case of which the means comprise a magazine locking mechanism which secures the staple magazine in the
10 inner position in the first component counter to the force of the magazine spring.

139. Implement according to Claim 138, in the case of which, in the inner position, the ram is retracted in the staple magazine.

140. Implement according to Claims 137 and 138, in
15 the case of which activation and deactivation of the magazine locking mechanism takes place via a stapler button.

141. Implement according to Claims 128 and 140, in
20 the case of which the stapler button is arranged on that end surface of the first component which is located opposite the articulation.

142. Implement according to Claim 138, in the case of which the magazine locking mechanism is locked auto-
25 matically in the inner position.

143. Implement according to Claim 136, in the case of which the means interrupt the operative connection between the ram and staple block.

144. Implement according to Claim 143, in the case
30 of which the means comprise a movable ram which can be moved between an active position and a non-active position.

145. Implement according to Claims 137 and 144, in the case of which the ram is prestressed into a non-
35 active position by spring force and can be moved into the active position by an actuating element.

146. Implement according to Claim 137, in the case of which the means comprise a movable staple stop by



means of which the staple block can be moved away out of the range of action of the ram.

147. Implement according to Claims 129 and 146, in the case of which the movement of the staple stop can be activated by the relative movement between the staple magazine and the first component.

148. Implement according to Claims 134 and 146, in the case of which the movement of the staple stop takes place by the deactivation of the magazine stop.

10 149. Implement according to Claim 129, in the case of which the staple magazine has a U-shaped cross-section.

150. Implement according to Claim 149, in the case of which the open profile side is directed towards a top surface of the component in the front section of the staple magazine and towards a base surface of the component in the rear section adjoining the articulation.

151. Implement according to Claim 129, in the case of which a loading slide which pushes the staple block against the staple stop by means of spring force is arranged in a staple magazine.

152. Implement according to Claim 151, in the case of which the spring force is produced by a clock spring.

153. Implement according to Claim 152, in the case of which the clock spring is arranged in the loading slide and, by means of the free end, is fastened on the staple magazine in the region of the staple stop.

154. Implement according to Claim 132, in the case of which the staple magazine has an end-side opening through which the staple block can be introduced into the staple magazine in the outer position.

155. Implement according to Claims 151 and 154, in the case of which the staple stop can be pivoted away for the introduction of the staple block.

156. Implement according to Claim 127, in the case of which a plurality of anvils are arranged on a



separate component which is mounted with rotary or sliding action in the second component.

157. Implement according to Claim 1, 2, 5, 6 or 8, in the case of which a hole puncher is arranged in the
5 components.

158. Implement according to Claim 157, in the case of which a punching mechanism is arranged in a second component and can be activated by the first component.

159. Implement according to Claim 158, in the case
10 of which the punching mechanism comprises a punch which is mounted in a punch guide.

160. Implement according to Claim 159, in the case of which the punch in the punch guide can be moved essentially perpendicularly with respect to the base
15 and top surfaces of the second component.

161. Implement according to Claim 160, in the case of which the two components are connected via an articulation, and the punch is arranged between the articulation and end surfaces located opposite the
20 articulation.

162. Implement according to Claims 160 and 161, in the case of which the punch is arranged approximately centrally with respect to the longitudinal axes of the components and in the vicinity of the articulation.

25 163. Implement according to Claim 159, in the case of which the punch guide is arranged on the second component in the direction of the first component.

164. Implement according to Claim 163, in the case of which the punch guide is arranged above the base
30 surface.

165. Implement according to Claim 164, in the case of which a recess for the punch guide is provided in the first component.

166. Implement according to Claim 165, in the case
35 of which the recess is formed in a staple magazine.

167. Implement according to Claim 159, in the case of which the punch is in operative connection with the first component.



168. Implement according to Claims 166 and 167, in the case of which the punch is in operative connection with the staple magazine.
169. Implement according to Claim 167 or 168, in the case of which the punch is in operative connection with the first component or the staple magazine via a carry-along member.
170. Implement according to Claim 160, in the case of which the punch is prestressed in the direction of the first component by a punch spring.
171. Implement according to Claim 170, in the case of which the components are prestressed into the second or open position by the punch spring.
172. Implement according to Claims 169 and 170, in the case of which the punch is held in engagement with the carry-along member by the punch spring.
173. Implement according to Claim 163, in the case of which the bearing block and the punch guide form a common assembly.
174. Implement according to Claim 158, in the case of which the punching mechanism comprises a bearing platform.
175. Implement according to Claims 159 and 174, in the case of which an introduction slot is arranged between the bearing platform and the punch guide.
176. Implement according to Claims 164 and 175, in the case of which the bearing platform is essentially in alignment with a base surface of the second component.
177. Implement according to Claim 175, in the case of which the introduction slot is open on the two sides directed towards the side surfaces and one side directed towards the end surfaces.
178. Implement according to Claims 161 and 177, in the case of which the introduction slot is open towards the end surface located opposite the articulation.
179. Implement according to Claims 161 and 177, in the case of which the introduction slot is open towards



the end surface located in the vicinity of the articulation.

180. Implement according to Claim 179, in the case of which the introduction slot is formed as a step in
5 the second component.

181. Implement according to Claims 173 and 180, in the case of which the assembly is arranged above the offset section.

182. Implement according to Claims 160 and 174, in
10 the case of which the bearing platform contains a through-passage opening for the punch.

183. Implement according to Claim 182, in the case of which a receiving space for punchings is provided beneath the bearing platform, in the region of the
15 through-passage opening.

184. Implement according to Claim 183, in the case of which the receiving space can be emptied via an opening which is arranged on the side surfaces and on the top surface and can be closed off by a covering.

20 185. Implement according to Claims 169 and 175, in the case of which the punch passes through the introduction slot to the full extent in the first or closed position of the components and releases the introduction slot to the full extent in the second or
25 open position of the components.

186. Implement according to Claims 169 and 175, in the case of which the introduction slot remains freely accessible until the punch has passed through it to the full extent.

30 187. Implement according to Claims 185 and 186, in the case of which the introduction slot remains freely accessible in the first or closed position of the components.

188. Implement according to Claim 164, in the case
35 of which utensils are arranged in the first component and the punch guide projects into a free space between said utensils.



189. Implement according to Claim 157, in the case of which a sheet stop by means of which the distance of a sheet edge from the punch can be defined is provided.
190. Implement according to Claim 189, in the case
5 of which the sheet stop is mounted movably in the second component.
191. Implement according to Claim 190, in the case of which the sheet stop is mounted rotatably in the component and can be pivoted between a storage
10 position, in which it is located essentially parallel to the longitudinal axis in the component, and a use position transverse to the longitudinal axis.
192. Implement according to Claim 159, in the case of which a punching template is provided, by means of
15 which it is possible to define the distance between two holes, and a sheet stop or the punching template is mounted displaceably in a guide groove, transverse to the longitudinal axis, in the component.
193. Implement according to one of Claims 1, 2, 5, 6
20 or 8, in the case of which functional elements of a hole puncher are arranged in a first of the components and the rest of the functional elements of the hole puncher are arranged in a second of the components.
194. Implement according to Claim 193, in the case
25 of which means for displacing a punch relative to a die are arranged in the first component, while the die and means for guiding the punch rectilinearly relative to the die are arranged in second component.
195. Implement according to Claim 194, in the case
30 of which the displacement means are designed for pressing the punch into the die and drawing the punch out of said die.
196. Implement according to Claim 194 or 195, in the case of which the displacement means are arranged above
35 the punch-guide means.
197. Implement according to one of Claims 193 to 196, in the case of which the functional elements of the hole puncher can be deactivated.



198. Implement according to Claim 194, in the case of which the displacement means comprise a connecting rod connected to the punch, on the one hand, and to the first component, on the other hand.

5 199. Implement according to Claim 194 in combination with a stapler, in the case of which the operating surface of the anvil and the die are located in a first common plane.

200. Implement according to Claim 199, in the case
10 of which the first plane is defined by a base surface of the second component.

201. Implement according to Claim 199 or 200, in the case of which paper-introduction openings for the hole puncher and stapler are delimited by the first common
15 plane and a second common plane, which are parallel to one another in the first or closed position.

202. Implement according to Claims 200 and 201, in the case of which the second plane is defined by a base surface of the first component.

20 203. Implement according to one of Claims 193 to 202 having stops for paper which is to be punched.

204. Implement according to Claim 203, in the case of which the components are connected by means of an articulation which is supported by an articulation
25 block borne by the second component, and the paper stops are arranged on the articulation block.

205. Implement according to Claim 204, in the case of which upright walls of the articulation block form the paper stops.

30 206. Implement according to Claims 59 and 204 or 205, in the case of which the catch is formed by projections of the articulation block.

207. Implement according to Claim 64 and one of Claims 204 to 206, in the case of which the
35 continuation is formed by protrusions integrally formed on the articulation block.

208. Implement according to one of Claims 193 to 207, in the case of which a chamber for receiving



punchings is provided in the second component, on that side of the die which is directed away from the punch.

209. Implement according to Claim 208, in the case of which a device for signalling the filling level of
5 the chamber is provided.

210. Implement according to Claim 209, in the case of which the device reacts to pressure loading.

211. Implement according to Claim 210, in the case of which the chamber has a cover which can be displaced
10 by the action of pressure.

212. Implement according to Claim 211, in the case of which the cover is a swing-action cover which permits emptying of the chamber.

213. Implement according to Claim 212, in the case
15 of which the swing-action cover is held in a closed position in a frictionally locking manner and, by the action of pressure, can be brought into a position in which the chamber is still closed.

214. Implement according to Claim 213, in the case
20 of which there are two latch-in positions for the swing-action cover.

215. Implement according to one of Claims 193 to 214, in the case of which the die is arranged in a paper-bearing platform.

25 216. Implement according to Claims 203 and 215, in the case of which it is possible to see the region of the bearing platform between the paper stops and the punch.

217. Implement according to Claim 216, in the case
30 of which the region can be seen through the second component.

218. Implement according to Claim 216 or 217, in the case of which the region can be seen through a light guide.

35 219. Implement according to Claim 218, in the case of which the paper-bearing platform has an aperture which receives the light guide.



220. Implement according to Claim 218 or 219, in the case of which the light guide opens on an outer, top surface of the relevant component.

221. Implement according to one of Claims 216 to 220, in the case of which the region which can be seen has a marking which is in alignment with the punch axis.

222. Implement according to Claims 218 and 221, in the case of which the marking is provided on the light guide.

223. Implement according to Claim 218, in the case of which the light guide widens outwards from the region which can be seen.

224. Implement according to Claim 218, in the case of which the light guide is of an essentially rectangular cross-section.

225. Implement according to one of Claims 1, 2, 3, 6 or 7 which comprises a pair of scissors.

226. Implement according to Claim 225, in the case of which the two components are coupled to one another via an articulation, and the scissors axis runs parallel to the articulation axis.

227. Implement according to Claim 225 or 226, in the case of which one of the scissor blades is mounted in one of the components.

228. Implement according to Claims 226 and 227, in the case of which the scissors can be displaced, in the direction of the articulation, into a use position.

229. Implement according to Claims 226 to 228, in the case of which the scissors axis and the articulation axis are essentially located one above the other in the use position, and the scissor blades project beyond end surfaces of the components.

230. Implement according to one of Claims 225 to 229, in the case of which the scissors can be actuated by relative movement of the two components.

231. Implement according to Claims 227 and 230, in the case of which the other scissor blade can be



brought into operative connection with the other component.

232. Implement according to Claim 230, in the case of which the other scissor blade can be rested against
5 the other component by spring force.

233. Implement according to one of Claims 225 to 232, in the case of which the two scissor blades are accommodated in the swung-together state in the same component.

10 234. Implement according to Claim 227 or 233, in the case of which one scissor blade is received with sliding action in one component.

235. Implement according to Claim 234, in the case of which the slide-action scissor blade is guided in a
15 channel by means of a shank.

236. Implement according to Claim 235, in the case of which the slide-action scissor blade can be displaced by means of a slide-action locking bar which is accessible from the outside.

20 237. Implement according to Claim 236, in the case of which the other scissor blade leaves a through-passage free for a connection between the slide-action locking bar and the slide-action scissor blade.

238. Implement according to one Claims 235 to 237,
25 in the case of which the slide-action scissor blade is additionally guided in a slot by means of a sliding block which is provided on that side of the scissor blade which is directed away from the slide-action locking bar.

30 239. Implement according to Claim 238, in the case of which the sliding block is designed to engage behind the slot.

240. Implement according to Claim 226, in the case of which the articulation is arranged in a cavity of
35 one of the components, and the scissors are received in the same component.

241. Implement according to Claims 233 and 240, in the case of which the component which receives the



scissors is provided with an opening for the through-passage of the other scissor blade in the use position of the scissors.

242. Implement according to one of Claims 225 to 241, in the case of which the scissors can be displaced out of one of the components into a use position, in which the scissors articulation is located outside the contour of the components.

243. Implement according to Claim 242, in the case of which the scissor blades have deflecting paths for guiding cut material beyond the components.

244. Implement according to Claim 242 or 243, in the case of which the scissor blades are arranged and oriented with respect to the components such that cut material cut by the scissors is directed past a high, narrow end section of the implement, on the one hand, and a low, wider end section of the implement, on the other hand.

245. Implement according to Claim 242, in the case of which means for directing the cut material past the components are provided on said components themselves or on the scissors and such that they can be displaced outwards together with said scissors.

246. Implement according to Claims 233 and 234 or one of the claims which refer back to these, in the case of which control means for automatically opening out the scissor blades upon displacement into the use position, and closing up the scissor blades upon displacement into a storage position, are provided.

247. Implement according to Claim 225, in the case of which the scissors can be displaced out of a storage position in one of the components into a use position, in which one of the scissor blades is connected to the component and the other scissor blade is located outside the implement to the full extent.

248. Implement according to Claim 247, in the case of which the two scissor blades are prestressed into a spread-apart position by a spring arrangement.



249. Implement according to Claim 248, in the case of which a locking device for holding the scissor blades in a pushed-together position counter to the spring prestressing is provided.
- 5 250. Implement according to Claim 249, in the case of which the locking device is arranged on the scissor blades.
251. Implement according to one of Claims 247 to 250, in the case of which the other scissor blade has a
10 thumb rest.
252. Implement according to Claim 251, in the case of which the thumb rest can be swung in and swung out.
253. Implement according to Claims 250 and 252, in the case of which the thumb rest forms part of the
15 locking device.
254. Implement according to Claim 250, in the case of which the locking device is released automatically when the scissors are displaced into their use position.
- 20 255. Implement according to Claim 250, in the case of which unlocking of the device causes the use position of the scissors to be blocked, and locking of the device causes the use position of the scissors to be unblocked.
- 25 256. Implement according to one of Claims 1 to 8 which is provided with a roll-up measuring tape.
257. Implement according to Claim 256, in the case of which the roll-up measuring tape is wound up around an axis which extends perpendicularly with respect to a
30 base surface of the component in which it is accommodated, and in the case of which said component has an outlet slot for the roll-up measuring tape.
258. Implement according to Claim 257, in the case of which the roll-up measuring tape is arranged
35 directly behind an end wall of the component in which it is accommodated.
259. Implement according to Claim 257, in the case of which, in the component in which the roll-up



measuring tape accommodated, the latter is accommodated behind a light guide and a chamber for receiving punchings and is routed outwards past these.

260. Implement according to one of Claims 256 to 5 259, in the case of which the component which receives the roll-up measuring tape has recesses for receiving a measuring tape of a length of up to 100 cm.

261. Implement according to Claim 260, in the case of which rectilinearly guided utensils are accommodated 10 in the component which receives the roll-up measuring tape, and at least one of the rectilinear guides terminates before the recesses.

262. Implement according to Claim 261, in the case of which said rectilinear guide receives a cutter.

15 263. Implement according to one of Claims 256 to 260 having a manually releasable fixing brake for the measuring tape.

264. Implement according to Claim 256, in the case of which the roll-up measuring tape is wound up around 20 an axis which runs parallel to an axis of an articulation connecting the two components.

265. Implement according to one of Claims 1 to 8 which is provided with a lamp.

266. Implement according to Claim 265, in the case 25 of which the lamp is accommodated in the interior of the implement and its light passes out through an end-side window.

267. Implement according to Claim 265 or 266, in the case of which batteries for feeding the lamp and an on-off switch which is accessible from the outside and is 30 intended for the lamp are accommodated in the implement.

268. Implement according to Claim 267, in the case of which the switch is arranged in a top surface of the 35 component containing the lamp.

269. Implement according to Claim 267 or 268, in the case of which a receiving compartment for the batteries is accessible from the outside via a closable cover.



270. Implement according to one of Claims 265 to 269 which has a magnifying glass and in the case of which the lamp illuminates the field of view of the magnifying glass.

- 5 271. Implement according to Claims 266 and 270, in the case of which the window is arranged beneath the magnifying glass.

272. Implement according to Claim 270 or 271, in the case of which the magnifying glass can be extended out
10 of the implement, and a light switch which is actuated by virtue of the magnifying glass being extended.

273. Implement according to one of Claims 1 to 8 which is provided with a laser pointer.

274. Implement according to Claims 265 and 273, in
15 the case of which the lamp, the laser pointer, and power-supply and switching elements for the lamp and laser pointer are accommodated in the same component, which is provided with a light-outlet window for the lamp and the laser.

- 20 275. Implement according to one of Claims 1 to 8 which is provided with a magnifying glass.

276. Implement according to Claim 275, in the case of which the magnifying glass can be extended out of the implement.

25 277. Implement according to Claim 276, in the case of which the magnifying glass is spring-prestressed in the extending direction and is held in a housing counter to the spring prestressing by means of a manually releasable locking means.

30 278. Implement according to Claim 275, in the case of which the magnifying glass is received in a plate-like mount.

279. Implement according to Claim 278, in the case of which the mount comprises an inner guide section and
35 an outer frame section.

280. Implement according to Claim 279, in the case of which the inner and the outer sections can be



pivoted by way of an articulation running parallel to the magnifying-glass plane.

281. Implement according to Claim 279, in the case of which the inner section is provided with recesses
5 for other utensils.

282. Implement according to Claim 281, in the case of which the inner section is fork-shaped.

283. Implement according to one of Claims 1 to 8 which is provided with a staple remover.

10 284. Implement according to Claim 283, in the case of which the staple remover has an outwardly tapering U-shaped cross-section.

285. Implement according to Claim 284, in the case of which the staple remover is accommodated behind a
15 side face of one of the components, and the U-legs are directed away from this side surface.

286. Implement according to Claim 283, in the case of which the tip of the staple remover is designed as a screwdriver blade.

20 287. Implement according to Claim 283, in the case of which the free end of the staple remover is angled slightly.

288. Implement according to Claims 284 to 287, in the case of which the angled section is directed
25 towards the U-legs.

289. Implement according to one of Claims 283 to 288, in the case of which the staple remover is accommodated displaceably in one of the components.

290. Implement according to Claim 289, in the case
30 of which the staple remover is accommodated in a channel opening outwards and is provided, in the opening region, with a staple-detaching means.

291. Implement according to one of Claims 283 to 290, in the case of which the staple remover is
35 provided with a holding-down device for staple spines.

292. Implement according to one of Claims 1 to 8 which is provided with a pointer.



293. Implement according to Claim 292, in the case of which the pointer can be drawn out telescopically.

294. Implement according to Claim 293, in the case of which, in the pushed-in state, the pointer is
5 accommodated in one of the components, parallel to the longitudinal axis thereof.

295. Implement according to Claim 294, in the case of which the pointer is arranged on a carrier which is mounted in the component such that it can be displaced
10 longitudinally to such an extent that the pointer can be gripped and drawn out.

296. Implement according to Claim 295, in the case of which the carrier is spring-loaded.

297. Implement according to one of Claims 1 to 8
15 which is provided with a push-out knife.

298. Implement according to one of Claims 1 to 8 which is provided with a push-out cutter.

299. Implement according to Claim 298, in the case of which the cutter comprises a blade carrier and a
20 cutter blade which is fastened releasably thereon.

300. Implement according to Claim 299, in the case of which the blade carrier has a continuation which engages into an opening of the cutter blade.

301. Implement according to Claim 300, in the case
25 of which the blade carrier can be latched in a storage position, in an operation position and in a blade-exchange position.

302. Implement according to Claim 300 or 301, in the case of which the cutter blade is held on the continu-
30 ation in a positively locking manner.

303. Implement according to Claims 301 and 302, in the case of which, in the storage and operating positions, the cutter blade has a support engaging around it in a positively locking manner.

35 304. Implement according to Claim 297 or 298, in the case of which the cutting edge of the knife or cutter is directed away from a longitudinal axis of the implement.



305. Implement according to one of Claims 1 to 8, in the case of which at least one of the components has a recess which juts inwards from the outside and in which a swing-out utensil is accommodated.
- 5 306. Implement according to Claim 305, in the case of which, in the swung-in state, the swing-out utensil is flush with the outer contour of the relevant component.
307. Implement according to Claim 305 or 306, in the case of which the utensil is spring-prestressed into its swung-in position.
- 10 308. Implement according to one of Claims 305 to 307, in the case of which the utensil is a fastening clip.
- 15 309. Implement according to one of Claims 305 to 308, in the case of which the utensil has a storage compartment.
310. Implement according to one of Claims 1 to 8, in the case of which the components engage one inside the other.
- 20 311. Implement according to Claim 310, in the case of which, in the first or closed position, one of the components is pushed, or swung, into a complementary recess of the other component.
- 25 312. Implement according to Claim 311 having a stapler and/or a hole puncher, in the case of which the other component has introduction slots for paper which is to be stapled or punched.
313. Implement according to one of Claims 1 to 8 or 30 310, in the case of which selected functional elements are assigned individual actuating elements.
314. Implement according to one of Claims 1 to 8 which is provided with an adhesive-tape dispenser including a mount for a roll of adhesive tape.
- 35 315. Implement according to Claim 314, in the case of which the mount comprises a hub which is arranged perpendicularly with respect to a base surface of a



component and on which the roll of adhesive tape can be rotated loosely.

316. Implement according to Claim 315, in the case of which the mount-containing component has a tape-outlet slot with a tear-off edge.

317. Implement according to Claim 314 or 315, in the case of which the mount is accommodated in a receiving space which adjoins an end surface of the relevant component.

10 318. Implement according to Claim 314, in the case of which the adhesive-tape dispenser can be swung out of one of the components.

319. Implement according to Claims 316 and 318, in the case of which the tear-off edge can also be swung out.

320. Implement according to Claim 318 or 319, in the case of which the adhesive-tape dispenser is articulated on a base surface or side surface of the component.

20 321. Implement according to Claim 314, in the case of which the mount is arranged in a stationary manner in the interior of one of the components and is accessible via a closable opening.

322. Implement according to one of Claims 1 to 8 which is provided with a measuring rule.

323. Implement according to Claim 322, in the case of which the measuring rule is accommodated in a channel which extends essentially over a length dimension of one of the components.

30 324. Implement according to one of Claims 1 to 8, in the case of which each component has three channels which are located one beside the other and extend in the longitudinal direction of the component, functional elements of a stapler and of a hole puncher being arranged in the central channels and utensils which can be pushed out and in by means of slide-action locking bars arranged on side surfaces of the components being arranged in the outer channels.



325. Implement according to Claim 324, in the case of which each component has side surfaces which are designed to be set back with respect to the outer contour, terminate at a base surface of the component and extend over most of the length of the component, the side surfaces of the two components being flush with one another in the first or closed position and forming a common hollow in which the slide-action locking bars are arranged in alignment with the outer contours of the components.
326. Implement according to Claim 324 or 325, in the case of which outer contours of the components are formed on shell-like plastic caps which are provided on metal parts which have been formed by bending, are profiled in the form of a U and form base and side surfaces of the components.