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Joining web for a mortise-type double cylinder lock

The invention relates to a joining web for a
5 mortise-type double cylinder lock, which connects two
cylinder housing parts to one another and has two limbs
and a central part.

A web of this type is known, for example, from
CH-A-626 679. The latter connects the two cylinder
10 housing parts by engaging in each case with one limb in
a recess of a cylinder pocket. The central part connects
the two limbs and has a threaded bore to receive a sleeve
screw. Double cylinder locks with a web permit cost-
effective manufacture of the housing parts of sintered
15 metal by pressing. However, the manufacture of the web
requires a comparatively great manufacturing outlay. For
example, the said web is welded from three pieces made of
nickel chromium steel. The pieces have to be drawn,
milled and bored. A plurality of comparatively complex
20 operations are therefore required. In the event of
attempted intrusions, attempts are often made to break
the web by bending it back and forth in the centre.

The object of the present invention is now to
provide a web of the type mentioned, which can be manu-
25 factured far more cost-effectively and still provides a
high degree of security.

The object is achieved in a web of the type
mentioned, in that it is manufactured from a plurality of
parts which extend over the length of the web and are
30 placed against one another. The web according to the
invention is surprisingly even more sturdy than a solid
web in the event of attempts to bend it. Presumably
because of the fact that the parts which have been placed
against one another can be displaced slightly relative to
35 one another during bending. Any attempt to break the
double cylinder lock by bending back and forth in the

joining
web



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region of the web is even more difficult when a web according to the invention is used. A further advantage of the web according to the invention consists in the fact that it can be manufactured far more cost-effectively than a welded web since the individual parts are far less thick and can be manufactured very cost-effectively, for example as sheet-metal punched parts. A web which provides a high degree of security can be manufactured very cost-effectively, for example, from three essentially equal flat sheet-metal punched parts.

Exemplary embodiments of the invention are explained in greater detail below with reference to the drawings, in which:

Figure 1 shows a perspective illustration of a web according to the invention, the outer parts having been drawn apart;

Figure 2 shows a partial view of a mortise-type double cylinder lock, parts likewise having been drawn apart;

Figure 3 shows a view of a cylinder half;

Figure 4 shows a view of an extension disc; and

Figure 5 shows a section along the line V-V in Figure 2.

The web 7 shown in section in Figure 5 has a shell 8 made of two equal shell halves 8a. These shell halves 8a are preferably cast, for example from zinc, aluminium or a suitable plastic material. However, the semi-shells 8a can also be manufactured from another suitable material, for example from nickel chromium steel. On the inner side, the semi-shells 8a each have a depression 19 in which an inner part 12 is placed. The depressions 19 are designed in such a way that together they can receive the inner part 12, and the semi-shells 8a which are placed against one another in mirror image surround the said inner part on all sides with the exception of a top side 14a of a central part 14.

To receive transverse pins for connecting the web 7 to housing parts 1a and 1b of a cylinder housing 1, the semi-shells 8a and the inner part 12 each have four flush passage holes 17 and 16. Additionally, the central part

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14 has a threaded bore 15 to receive a sleeve screw which is not shown here, the said bore being flush with holes 11 in each case in a central part 10 of the semi-shells 8a. The central part 12 is punched out of a steel plate, 5 for example with a thickness of about 3 mm.

As shown in Figure 2, the web 7 engages with each limb in a recess 4 of a cylinder pocket 2 and, by means of the transverse pins 20 which engage at their ends in holes 3 of the housing parts 1a and 1b, is firmly connected therein to the said housing parts. The housing parts 1a and 1b can be extended by means of a disc 6, 10 each of which likewise has a recess 5. The holes 16 and 17 are obviously positioned to correspond to the thickness of the discs 6. By means of the web 7, housing parts 15 1a and 1b can thus be connected selectively with or without discs 6. Additionally, the web 7 permits the customary installation in a security lock.

The two semi-shells 8a can also be plate-like flat sheet-metal punched parts (not shown here) which are 20 essentially of the same design as the central part 12, but which only require a smooth passage hole instead of the threaded bore 15. The central sheet-metal punched part can have additional passage holes in which cams of the other sheet-metal punched parts engage in order to 25 connect the parts to one another in the longitudinal direction. Such cams can likewise be manufactured simultaneously with the punching of the sheet-metal parts and thus in a very cost-effective manner.

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Patent Claims

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1. Joining web for a mortise-type double cylinder lock, which connects two cylinder housing parts (1a, 1b) to one another and has two limbs (9, 13) and a central
5 part (10, 14), characterized in that it is manufactured from a plurality of parts (8a, 12) which extend over the length of the web and are placed against one another.
2. Web according to Claim 1, characterized in that it is manufactured from three parts (8a, 8a, 12), at
10 least one part (12) being a punched sheet-metal part.
3. Web according to Claim 1 or 2, characterized in that two outer parts (8a, 8a) form a shell (8) in which an inner part (12) is placed.
4. Web according to Claim 3, characterized in that
15 the inner part (12) is a punched part.
5. Web according to one of Claims 1 to 4, characterized in that at least one part (8) is a cast part.
6. Web according to one of Claims 3 to 5, characterized in that the shell (8) has two semi-shells (8a).
- 20 7. Web according to Claim 1 or 2, characterized in that it is manufactured from three punched parts.
8. Web according to one of Claims 1 to 6, characterized in that at least one part (8a) is manufactured from zinc, aluminium or plastic material.
- 25 9. Web according to Claim 3, characterized in that the shell (8) is manufactured from nickel chromium steel.
10. Web according to Claim 1, characterized in that only an inner part (12) has a threaded bore (15) for a sleeve screw.

