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FASTENING DEVICE FOR A TOOL OR WORKPIECE

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ABSTRACT

The fastening of two parts (1 and 3) to one another, e.g. of a tool or workpiece, on a holder provides that the two parts (1 and 3) to be fastened together have adjoining fitting areas (4 and 5) when in use and are braced against one another by fastening means, e.g. a single fixing screw (2), extending transversely or at right angles to the contact plane of these fitting areas (4 and 5). In this case., in addition to the fitting areas (4 and 5) fixing the reciprocal axial position in Z direction, fitting projections (9) are provided on the one part and fitting recesses (10) on the other part which prevent the parts (1 and 3) connected and braced with one another from shifting transversely to the fastening means within the contact plane of fitting areas (4 and 5) and which center the two parts (1 and 3) transversely to this contact plane in X and Y direction so as to fit accurately. The fitting projections (9) are thereby on an area (11) which can deviate elastically, or is flexible, in axial direction against a deformation force which can be applied by the screw (2), of the part (1 or 3) on which they are located, so that the fitting projections (9) engage so as to fit accurately in the fitting recesses (10) before the fitting areas (4 and 5) come in contact. By tightening the fastening means more, fitting areas (4 and 5) then also come into reciprocal contact without the need for an additional part for adjusting or centering in X and Y direction.

(Figure 2)