

Title (en)
CLAMPING DEVICE FOR FAST AXIAL MOUNTING OF TOOLS, ESPECIALLY THE DISK-SHAPED ONES

Title (de)
Spanneinrichtung zum schnell axialen Befestigen von Werkzeuge, insbesondere scheibenförmige Werkzeuge

Title (fr)
DISPOSITIF DE SERRAGE PERMETTANT LE MONTAGE AXIAL RAPIDE D'OUTILS ET PLUS PARTICULIEREMENT D'OUTILS EN FORME DE DISQUE

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Abstract (en)
[origin: WO9425221A1] The proposed invention is a clamping device for fast axial clamping of tools, especially disk-shaped ones, for example grinding wheels (10) for portable angle grinders, which is screwed onto the the threaded end (4) of the driving shaft (1), at the outer side, in such a way that together with the opposite lying flange (6), which is non-rotationally linked with the driving shaft (1), it presses against the grinding wheel (10). It consists of two flanges (14) and (12), lying opposite each other, having teeth (19) and (20) turned one against the other, with left screw planes (21) and (22) over which the clamping force is transmitted. In the radial direction, the flanges (14) and (12) are fitted with extruding thumbs (24) and (23), which with their opposite lying planes (39) and (38) form a 2 PROPORTIONAL angle and between which there are extruded parts (27) which, in the longitudinal direction, touch wedge-shaped recesses (32) at a beta angle. The recesses (32) are on a ring (28) which, in the longitudinal direction, closes up the space between the flanges (14) and (12). The ring (28) is fitted with positioning thumbs (35) which rest upon positioning projections (37), these being rigidly linked with the flange (14), and catching thumbs (33). Between the catching thumbs (33) and the extruding thumbs (24) there are pressure springs (34).

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