

Title (en)  
CYLINDER FOR SHAPING FLAT MATERIAL

Title (de)  
ZYLINDER FÜR DIE BEARBEITUNG VON FLACHMATERIAL

Title (fr)  
CYLINDRE POUR FAÇONNER DES MATERIAUX PLATS

Publication  
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Application  
**EP 05733536 A 20050413**

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Abstract (en)  
[origin: WO2005102891A1] The invention relates to a cylinder for shaping flat material, said cylinder comprising a cylindrical body that can be rotated about a cylinder axis, and at least one group of a plurality of tools homogeneously distributed around the periphery of the cylindrical body, said tools being able to perform a working movement in relation to the cylindrical body and being respectively coupled to a first control lever and a second control lever for driving the working movement. Said cylinder also comprises a fixed cam plate traced by the first control lever of each tool, and a rotating cover disk that is traced by the second control lever of each tool and is coupled to the rotation of the cylindrical body. Said cover disk comprises a plurality of congruent sectors, each comprising at least one section having a first radius which, when it is traced by the second control lever of each tool, enables the working movement corresponding to the contour of the cam plate scanned by the first control lever, and at least one section having a second radius which, when it is traced by the second control lever of each tool, blocks the working movement corresponding to the contour of the cam plate scanned by the first control lever. The number m of sectors amounts to 4 or at least  $n/(2+1)$ , where n is the number of tools pertaining to the group, and the ratio between the rotational speed of the cylindrical body and of the cover disk is  $1:1 \pm (p \times m)$ , p being a natural number  $\geq 2$ .

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