

Title (en)

APPARATUS AND TOOL FOR SIMULTANEOUSLY FORMING SELECTED CIRCUMFERENTIAL AND AXIAL PROFILES ON A WORKPIECE

Publication

**EP 0000213 B1 19800723 (EN)**

Application

**EP 78200023 A 19780601**

Priority

US 80368577 A 19770606

Abstract (en)

[origin: EP0000213A1] Selected circumferential and axial profiles are formed simultaneously on a rotating workpiece by apparatus that comprises a carrier (34) that is mounted for movement toward and away from the workpiece and carries a cutting element (92) which is pushed by a spring (102) into engagement with the workpiece. The carrier (34) simultaneously follows a circumferential cam (112) that rotates conjointly with the workpiece and an axial cam (82) that is mounted on a follower bar (70). The follower bar (70) is mounted on the carrier (34) for movement relative to the carrier solely along an axis parallel to and spaced from the axis of rotation of the workpiece. The axial cam (82) and follower (94) are in series relation to the circumferential cam (112) and follower (110) so that movements of the cutting element (92) toward and away from the workpiece generated by the tracking by the follower bar (70) of the circumferential cam (112) are superimposed on movements of the carrier (34) toward or away from the workpiece generated by the tracking of the axial cam (82) by the carrier (34) as the carrier (34) and the cutting element (92) thereon move parallel to the axis of rotation of the workpiece.

IPC 1-7

**B23Q 35/10**

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