

Title (en)
MACHINE FOR TREATING WORK PIECES WITH A COMPLICATED PROFILE

Publication
EP 0084373 B1 19871111 (DE)

Application
EP 83100367 A 19830117

Priority
BG 5502582 A 19820118

Abstract (en)
[origin: US4549370A] Machine for finishing complex profiled workpieces having a rotating barrel where the workpieces are machined in an loading/unloading unit, for example, a manipulator with grippers. The barrel has a torus-shaped work area defined by a bottom and cylindrical walls fixed to the bottom and the torus-shaped work area of the barrel is closed at the top with a stationary magnetic pole piece. In the center of the torus-shaped work area there is located an electromagnetic coil and a disc mounted on the magnetic pole piece through a fixed shaft. The cylindrical walls of the torus-shaped work area are made of non-ferromagnetic material while the bottom of the shaft and the disc are made of ferromagnetic material. The advantages of the machine are that the quality of the surfaces as machined is improved without changes in the geometry of the workpieces, and machining is carried out on preselected surfaces only.

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IPC 8 full level
B24B 1/00 (2006.01); **B24B 31/00** (2006.01); **B24B 31/112** (2006.01)

CPC (source: EP US)
B24B 1/005 (2013.01 - EP US); **B24B 31/003** (2013.01 - EP US); **B24B 31/112** (2013.01 - EP US)

Cited by
DE102009015158A1; EP0222307A3; CN105772713A

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US 4549370 A 19851029; AT E30691 T1 19871115; AU 1032883 A 19830728; BG 39847 A1 19860915; DE 3374393 D1 19871217; EP 0084373 A2 19830727; EP 0084373 A3 19850515; EP 0084373 B1 19871111; JP S58132455 A 19830806

DOCDB simple family (application)
US 45899783 A 19830118; AT 83100367 T 19830117; AU 1032883 A 19830112; BG 5502582 A 19820118; DE 3374393 T 19830117; EP 83100367 A 19830117; JP 21937882 A 19821216