

Title (en)

Valve stem polishing method and apparatus.

Title (de)

Verfahren und Vorrichtung zum Polieren von Ventilstösseln.

Title (fr)

Procédé et dispositif de polissage de tige de soupape.

Publication

**EP 0480701 A1 19920415 (EN)**

Application

**EP 91309265 A 19911009**

Priority

US 59528290 A 19901009

Abstract (en)

An apparatus and method for polishing combustion engine valves. The machine includes a rotating deburring wheel for on contact with the valve stem and a regulating surface which provides support and applies a rotational force to the valve stem. A pair of guide blades and a guide plate cooperate with the regulating surface to contain the valve stem when contacted by the deburring wheel. The guide blades are positioned at an angle with respect to the axis of rotation of the regulating surface to bias the valve in an inward direction against the guide plate during valve rotation. The machine further includes the use of a unique pivot point for the deburring wheel support so the deburring wheel contacts the valve stem approximately above the valve stem centreline regardless of valve stem diameter or variations in the diameter of the deburring wheel. <IMAGE>

IPC 1-7

**B24B 5/22**

IPC 8 full level

**B24B 5/22** (2006.01)

CPC (source: EP)

**B24B 5/22** (2013.01)

Citation (search report)

- [A] US 3457576 A 19690729 - YARROW JOHN C
- [A] US 2424160 A 19470715 - GREENE ELMER G
- [A] US 3729300 A 19730424 - MACKAY J, et al
- [X] MACHINE DESIGN vol. 52, no. 5, CLEVELAND, OHIO, USA page 68; SCANNING FOR IDEAS: 'TOP-MOUNTED WHEEL GRINDS PRECISION PARTS'
- [X] \* the whole document \*
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Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**EP 0480701 A1 19920415**; AU 641033 B2 19930909; AU 8137691 A 19920416; CA 2047594 A1 19920410; NZ 238913 A 19940225

DOCDB simple family (application)

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