

Title (en)

A TWO-PLATE LAPPING MACHINE WITH COMPARATOR FOR CONTINUOUSLY MEASURING THE WORKPIECE THICKNESS

Publication

EP 0241433 B1 19920819 (EN)

Application

EP 87830086 A 19870305

Priority

IT 4773886 A 19860307

Abstract (en)

[origin: EP0241433A2] In a lapping machine provided with two lapping plates with satellites rotated by a crown gear which is internal to the plate which satellites roll on outer ring gear along the periphery of the same plate, a comparator is mounted provided with two points between which, as between shears, in succession, a limb is taken of all the rotating satellites which all project from the lapping plate; at least a portion of a piece to be lapped being continued in said limb whereby the vertical thickness of said piece is measured. Due to the suitable ratio being chosen between the number of teeth of the lapping plates and the number of the satellite teeth it is obtained that the measurement carried out on a workpiece for each satellite is continuously repeated. A device is also provided for restoring the alignment of the two points of the comparator when the lower plate is worn; a device for facilitating the charging and the discharging of the satellites all filled of the workpieces being lapped is also provided.

IPC 1-7

B24B 37/04

IPC 8 full level

B24B 37/013 (2012.01)

CPC (source: EP)

B24B 37/013 (2013.01)

Citation (examination)

- PATENT ABSTRACTS OF JAPAN vol. 8, n° 258 (M340)(1695), 27 th November 1984 & JP-A-59 129 664 (FUJIKOSHI KIKAI KOGYO) 26-07-1984
- PATENT ABSTRACTS OF JAPAN vol. 1, n° 99 (M-77), 31st August 1977, page 2770 & JP- A - 52 39889 (TOSEI ENGINEERING SERVICE) 28-03-1977
- PATENT ABSTRACTS OF JAPAN, vol. 9, n° 7 (M350)(1730), 12th January 1985 & JP - A - 59 156 665 (SUPIIDO FUA MU) 05-09-1984

Cited by

DE10007390B4; EP0344548A3; EP0481935A3; CN115808145A

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