

Title (en)

Polishing machine with rotating head carrying a plurality of polishing sectors having a segmented and resilient structure

Title (de)

Poliermaschine mit einem Drehkopf der eine Vielzahl von Poliersektoren mit segmentierten und elastischen Strukturen trägt

Title (fr)

Machine de polissage comprenant une tête de polissage portant une pluralité de secteurs de polissage ayant une structure segmentée et élastique

Publication

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Application

EP 99830221 A 19990416

Priority

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Abstract (en)

A polishing machine comprises at least a rotating head (1), connected through a flange (2) to the end of a drive shaft, the working face of the rotating head carrying a plurality of grinding sectors (3), held in hinged brackets (4), connected to the rotating head (1) at uniformly spaced angular positions, each grinding sector (3) being of an aggregate of abrasive particles and of a bonding resin having a cylindrical working face whose geometric axis lies on a plane normal to the axis of rotation of the head (1) and a shank portion shaped to fit into a receiving slot of the holding bracket (4). Each grinding sectors (3) has a laminated structure including a shaped shank (5) of a rigid material and mechanically resistant to fit in the receiving slot, at least a resilient pad, at least partly of elastomer (6, 8) interposed between a face of said shank (5) and an aggregate abrasive body (9, 10) having said cylindrical working face defined by a plurality of end faces of as many protrusions (9) of aggregate, rising from a relatively thin or flexible base layer (10) of said aggregate, incorporating reinforcing fibers. <IMAGE> <IMAGE>

The machine has at least a rotating head (1) connected through a flange (2) to the end of a drive shaft and with a working facing which carries grinding sectors (3), hingedly held in brackets (4), and connect to the head at uniformly spaced angular positions. The sectors are an aggregate of abrasive particles and a bonding resin, with a cylindrical working face whose geometric axis lies on a plane normal to the head rotation axis, and a shank portion shaped to fit into a receiving bracket slot. Each grinding sector has a laminated structure with a shaped shank of a rigid material and mechanically resistant to fit in the slot, at least a resilient pad at least partly of elastomer interposed between a face of the shank and an aggregate abrasive body. The abrasive body has the cylindrical working surface defined by end faces of as many protrusions of aggregate rising from a relatively thin and flexible base layer of the aggregate incorporating reinforcing fibers.

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B24B 41/0475 (2013.01); **B24D 7/066** (2013.01); **B24D 99/005** (2013.01)

Citation (search report)

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- [X] EP 0395162 A1 19901031 - VINCENT SPA [IT]
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Citation (third parties)

Third party :

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