

Title (en)

A sanding machine for timber boards.

Title (de)

Schleifmaschine für Holzplatten.

Title (fr)

Machine de ponçage pour panneaux de bois.

Publication

EP 0484303 A1 19920506 (EN)

Application

EP 91830478 A 19911031

Priority

IT 371790 A 19901031

Abstract (en)

Each of the single pressure pads (6) in a wide belt sander is supported and controlled in operation by means of an electromagnet assembly (E) comprising a vertically disposed rod (10) made fast at one end to the pad (6) and rigidly associated at centre with a permanent magnetic (12) of annular shape. The top and bottom ends of the rod are accommodated freely and coaxially, and therefore slidably, in a pair of fixed solenoids (13, 14) through which two currents are passed in opposite directions in such a way as to generate corresponding magnetic fields; the polarities at the two ends (13a-13b, 14a-14b) of the solenoids are respectively opposite, so that with like polarities between each annular surface (12a-12b) of the permanent magnet (12) and the corresponding surface (13a, 14a) of each solenoid, the permanent magnet is poised between respective repulsion forces (F, F1) of which the value can be modulated by a sensing and control facility (20, 26, 25) governing the current input to the two solenoids (13, 14). <IMAGE>

IPC 1-7

B24B 21/08

IPC 8 full level

B24B 21/08 (2006.01)

CPC (source: EP)

B24B 21/08 (2013.01)

Citation (search report)

- [A] US 4527359 A 19850709 - STUMP LEE E [US], et al
- [A] US 4835503 A 19890530 - EVERETT WILLIAM F [US]
- [A] FR 2460533 A1 19810123 - SEIM

Cited by

US6769958B1; US5997391A; CN115401550A; ITBO20120383A1; EP2687328A1; CN104965435A; CN108857640A; US6913512B2; WO2004103639A1

Designated contracting state (EPC)

DE ES NL

DOCDB simple family (publication)

EP 0484303 A1 19920506; EP 0484303 B1 19940525; DE 69102124 D1 19940630; DE 69102124 T2 19940929; ES 2056623 T3 19941001; IT 1242602 B 19940516; IT 9003717 A0 19901031; IT 9003717 A1 19920501

DOCDB simple family (application)

EP 91830478 A 19911031; DE 69102124 T 19911031; ES 91830478 T 19911031; IT 371790 A 19901031