

Title (en)  
Planer with abrasive tool

Title (de)  
Handhobelmaschine mit Schleifwerkzeug

Title (fr)  
Rabot avec outil abrasif

Publication  
**EP 1512506 A1 20050309 (EN)**

Application  
**EP 04425549 A 20040721**

Priority  
IT TV20030122 A 20030903

Abstract (en)  
Electric tool able to smooth surfaces by means of abrasion made up of: front plate (1) for resting on surfaces adjustable in height able to determine the depth of material to be removed by the abrasive tube (3). Rear plate (2) for resting on surfaces adjustable in height through a mechanism enabling it to work at a tangent, with its own ideal length, to the external diameter of the abrasive tube which will vary according to the grain, the type of abrasive and to the wear during use. This rear plate (2) will have a width equal to or less than the width of the abrasive tube (3) and will be aligned to the abrasive tube in a way that it will slide in the indentation left by the abrasive tube. Interchangeable abrasive roller (3) fitted onto a roller-carrier mechanism placed between the above mentioned plates and powered in its rotation in a transverse horizontal axis in relation to the direction of manual advancement of the machine, the rotational direction being opposite to the manual direction of the machine. Rear handle (4) with switch. Front handle (5) with mechanism for adjusting the front plate. Electric motor (7), will transmit its movement to the operating roller by means of a belt and pulleys, or gears. Point of control (8) of the mechanism to adjust the rear plate. Dust exhaust (9). Body of the machine (10). <??>Mention is also made of a mechanical arrangement for the height adjustment of the rear plate (fig 5) and two mechanical solutions for the locking function between abrasive sleeve and slaveholder roll (fig 6-7). <IMAGE>

IPC 1-7  
**B27C 1/10**; **B24B 23/00**; **B27C 1/14**

IPC 8 full level  
**B24B 23/02** (2006.01); **B27C 1/10** (2006.01); **B27C 1/14** (2006.01)

CPC (source: EP)  
**B24B 23/02** (2013.01); **B27C 1/10** (2013.01); **B27C 1/14** (2013.01)

Citation (search report)  
• [XA] DE 3621240 A1 19880107 - FESTO KG [DE]  
• [XA] EP 0993919 A2 20000419 - REFSON NEIL [GB]  
• [A] EP 0878280 A2 19981118 - TREVISIOL EZIO [IT]

Cited by  
EP1859911A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1512506 A1 20050309**; **EP 1512506 B1 20070919**; DE 602004009007 D1 20071031; DE 602004009007 T2 20080612; ES 2291842 T3 20080301; IT TV20030122 A1 20031202

DOCDB simple family (application)  
**EP 04425549 A 20040721**; DE 602004009007 T 20040721; ES 04425549 T 20040721; IT TV20030122 A 20030903