

Title (en)
Hand-held self-sustained vacuum grinder

Title (de)
Durch Unterdruck selbsthaltendes Handschleifgerät

Title (fr)
Ponceuse manuelle, tenant elle-même par du vide

Publication
EP 1900479 A1 20080319 (EN)

Application
EP 07386011 A 20070510

Priority
GR 20060100513 A 20060913

Abstract (en)
Portable electromotorised smoothers are wide known as equipment smoothing surfaces. They are distincted in two types: Rotary and pulsive smoothers. Power is provided by an electric motor to the head under it is located the glass-paper. The innovation is related to the selfholding and fixing of the smoother on the treated surface while the operator simply directs it. The innovation can be applicated either in rotary neither in pulsive smoothers. The consequence of the innovation is succeded by the production of a vacuum under the working head that hold it fixed on the treated surface, either if this is inclined, vertical or upside down without application of press by the operator. The vacuum is produced by the same motor with an extra propeller or an external vacuum source (vacuum pump) and applied by one or more hoses which terminates on the same level of the head smoother. On figure 1 is reported a typical portable manual selfholding smoother that is composed by the main body (A), inside it contains the electric motor, the smoothing head (B), handle (C), and the hose (D). The same hose can be connected by an external vacuum source like a vacuum pump so that is realised a depression on the below side (E) of the head. As well the vacuum function carries the dust away from the working area. The innovation improves the common smoothers that are unhandly caused by the weight particularly on inclined, vertical or ceiling surfaces.

IPC 8 full level
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CPC (source: EP)
B24B 7/182 (2013.01); **B24B 7/186** (2013.01); **B24B 23/02** (2013.01); **B24B 23/04** (2013.01); **B24B 55/06** (2013.01); **B24B 55/102** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK YU

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