

Title (en)

PROCESS AND MACHINE FOR TREATING SURFACES

Title (de)

VERFAHREN UND MASCHINE ZUM BEHANDELN EBENER FLÄCHEN

Title (fr)

PROCEDE ET MACHINE POUR TRAITER DES SURFACES

Publication

EP 0884967 B1 19991229 (DE)

Application

EP 97920516 A 19970305

Priority

- DE 9700524 W 19970305
- DE 19608620 A 19960306
- DE 19711040 A 19970304

Abstract (en)

[origin: WO9732512A1] The invention concerns a process for treating, in particular for cleaning, maintaining and/or polishing flat and/or vertical surfaces such as floors and walls, and a machine for carrying out the process. The process can be carried out with overpressure or negative pressure. A vacuum ring is laid around the surface to be cleaned and an air stream carrying solid particles is directed onto the surface and acts on the floor by virtue of its kinetic energy, without any need of mechanical aids such as brushes. Where overpressure is applied, the air stream produces an air cushion-like flow which rotates or moves along predetermined paths. Where negative pressure is applied, a flow is drawn continuously over the surface to be cleaned. By adding solids and cleaning and maintenance materials to the air stream, the underlying surface can be cleaned and maintained. With the claimed process, it is possible to combine a number of treatment stages in a single process. The claimed overpressure process operates periodically, the negative pressure process in a completely closed circulation in which the solids particles are cleaned in an environmentally acceptable way and recycled into the process. The invention is characterised by low weight, ease of handling, and low consumption of water and cleaning and maintenance materials.

IPC 1-7

A47L 11/03

IPC 8 full level

A47L 11/03 (2006.01)

CPC (source: EP US)

A47L 11/03 (2013.01 - EP US); **A47L 11/4083** (2013.01 - EP US); **A47L 11/4088** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9732512 A1 19970912; AT E188106 T1 20000115; AU 2690397 A 19970922; EP 0884967 A1 19981223; EP 0884967 B1 19991229; US 6135127 A 20001024

DOCDB simple family (application)

DE 9700524 W 19970305; AT 97920516 T 19970305; AU 2690397 A 19970305; EP 97920516 A 19970305; US 14251298 A 19981008