

Title (en)
PAINT TONING MACHINE

Title (de)
FARBABTÖNUNGSMASCHINE

Title (fr)
MACHINE A TEINTER LA PEINTURE

Publication
EP 1109679 B1 20031022 (EN)

Application
EP 99940229 A 19990831

Priority
• FI 9900711 W 19990831
• FI 981880 A 19980902

Abstract (en)
[origin: WO0013920A1] The invention relates to a paint toning machine comprising several containers (4) for toning paste, the elevation of the containers being dependent on the amount of the toning paste they contain, and paste feeding devices (6) interacting with the containers for toning paste, the feeding devices comprising a directional valve (12), a pump (11) and a feed nozzle (13) connected to the directional valve, and a flexible connection (19) between the directional valve and the container for toning paste, which connection allows the vertical movement of the container for toning paste and the flow of the toning paste from the container for toning paste via the directional valve to the feeding pump during the suction phase thereof. In order to avoid a previously used difficult hose coupling, an output (20) of the container (4) for toning paste and an input (21) of the directional valve (12), each connected to the flexible connection (19), are placed substantially one on top of the other, the flexible connection being formed of a collapsible fitting (19).

IPC 1-7
B44D 3/08

IPC 8 full level
B01F 13/10 (2006.01); **B01F 15/02** (2006.01)

CPC (source: EP US)
B01F 33/841 (2022.01 - EP); **B01F 35/71** (2022.01 - EP); **B01F 35/717613** (2022.01 - EP US); **B01F 35/82** (2022.01 - EP US);
B01F 2101/30 (2022.01 - EP)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0013920 A1 20000316; AT E252460 T1 20031115; AU 5425699 A 20000327; CN 1097523 C 20030101; CN 1318017 A 20011017;
DE 69912298 D1 20031127; DE 69912298 T2 20040729; DK 1109679 T3 20040223; EP 1109679 A1 20010627; EP 1109679 B1 20031022;
ES 2211144 T3 20040701; FI 104063 B1 19991115; FI 104063 B 19991115; FI 981880 A0 19980902; FI 981880 A 19991115

DOCDB simple family (application)
FI 9900711 W 19990831; AT 99940229 T 19990831; AU 5425699 A 19990831; CN 99810609 A 19990831; DE 69912298 T 19990831;
DK 99940229 T 19990831; EP 99940229 A 19990831; ES 99940229 T 19990831; FI 981880 A 19980902