

Title (en)

OSCILLATOR SCREEN CLEANING APPARATUS

Title (de)

SCHABLONENREINIGUNGSVORRICHTUNG MIT HIN- UND HER-BEWEGUNGSEINRICHTUNG

Title (fr)

APPAREIL DE NETTOYAGE DE TRAME D'IMPRESSION A OSCILLATEUR

Publication

EP 0808248 A1 19971126 (EN)

Application

EP 96906264 A 19960206

Priority

- US 9601393 W 19960206
- US 38473795 A 19950207
- US 54765495 A 19951024

Abstract (en)

[origin: WO9624492A1] An oscillator screen cleaning apparatus (10, 110) includes a housing (12, 112) having a plurality of spray nozzles (18, 118) to spray a printing screen (16, 116) with solvent. An oscillating mechanism (25, 128) oscillates the screen in front of the spray nozzles, which nozzles (18, 118) are arranged in opposing grid patterns for complete coverage of the screen with sprayed solvent. The sprayed solvent is collected, filtered and resprayed onto the screen at a high spray rate. Housing (12, 112) is coupled to a vapor recovery system (110, 145) to keep solvent vapors from escaping into the environment. In one embodiment (110), guide brackets (170) guide the screen (16, 116) perpendicular to the nozzles (18, 118) from the screen's sides to handle screens of different heights. A reservoir (120) with a sloped wall (140) and a pump (123) recaptures sprayed solvent and pumps it to the nozzles (18, 118) for recycling. A wipe down booth (152) captures excess solvent from a screen (16, 116) removed from the housing (12, 112) and directs the captured solvent to the reservoir (120).

IPC 1-7

B41F 35/00

IPC 8 full level

B41F 35/00 (2006.01)

CPC (source: EP)

B41F 35/005 (2013.01); **B41P 2235/26** (2013.01); **B41P 2235/31** (2013.01)

Citation (search report)

See references of WO 9624492A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9624492 A1 19960815; AT E172670 T1 19981115; AU 4970596 A 19960827; BR 9607829 A 19980616; CA 2211415 A1 19960815; CA 2211415 C 20000801; DE 69600876 D1 19981203; DE 69600876 T2 19990318; DK 0808248 T3 19990712; EP 0808248 A1 19971126; EP 0808248 B1 19981028; ES 2125101 T3 19990216; MX 9705786 A 19980731

DOCDB simple family (application)

US 9601393 W 19960206; AT 96906264 T 19960206; AU 4970596 A 19960206; BR 9607829 A 19960206; CA 2211415 A 19960206; DE 69600876 T 19960206; DK 96906264 T 19960206; EP 96906264 A 19960206; ES 96906264 T 19960206; MX 9705786 A 19970730