

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

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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).

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