

Title (en)
DEVICE FOR TREATING SHEET MATERIALS USING PRESSURISED WATER JETS

Title (de)
VORRICHTUNG ZUR BEHANDLUNG VON FOLIENMATERIALEN DURCH DRUCKWASSERSTRAHLEN

Title (fr)
DISPOSITIF POUR LE TRAITEMENT DE MATERIAUX EN FEUILLE AU MOYEN DE JETS D'EAU SOUS PRESSION

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Application
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Abstract (en)
[origin: US2002134866A1] The invention concerns a device comprising a body (1) supplying water under pressure comprising a feeding chamber (2) extending over the whole length of said body, and wherein is fed, through a filter (4), water under pressure; a distributing zone, distributing water under pressure over the whole treatment length against a plate (7) provided with micro-perforations, whereof the orifices define water needles (8) directed against the surface (S) of the material to be treated, the material being supported by a carriage element subjected to a suction source eliminating the treatment water. The invention is characterized in that the water transfer from the intake chamber (2) to the perforated plate (7), is done through a channel (22) with rectangular cross-section extending over the whole length of the injector, from the periphery of the feeding chamber (2) up to the surface or the perforated plate (7), the spacing between the side walls (21) of said channel and the height thereof producing a unidirectional and stable stream of water without turbulence.

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