

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

Publication
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Application
EP 00931334 A 20000522

Priority
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Abstract (en)
[origin: US6474571B2] A mechanism for the treatment of materials by pressurized water jets includes a body (1) for supplying water under pressure which includes a feeding chamber (2) extending over the whole length of the body, and wherein water under pressure is fed to the feeding chamber through a filter (4). The body also includes a distributing zone for distributing water under pressure over a whole treatment length against a plate (7) provided with micro-perforations which define water needles (8) directed against the surface (S) of the material to be treated. The material is supported by a carriage element subjected to a suction source eliminating the treatment water. Further, water transfer from the intake chamber (2) to the perforated plate (7), is done through a channel (22) with a 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), wherein the spacing between the side walls (21) of the channel and the height thereof produces a unidirectional and stable stream of water without turbulence.

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