

Title (en)

Method of and apparatus for injecting treating liquid into wood and porous inorganic material

Title (de)

Verfahren und Vorrichtung zur Einspritzung von Behandlungsflüssigkeit in Holz und poröse inorganische Materialien

Title (fr)

Méthode et appareil pour l'injection d'un liquide traitant dans le bois et de matériel poreux inorganique

Publication

EP 0607625 B1 20010131 (EN)

Application

EP 93121160 A 19931231

Priority

JP 2375293 A 19930119

Abstract (en)

[origin: EP1053841A1] An apparatus for injecting a treating liquid into wood material comprises: a pressure vessel (12) for storing and sealing said material (11) to be treated therein; a pressure reducing pump (13) for reducing the pressure of said pressure vessel (12) after storing and sealing said material (11) in said pressure vessel (12); a liquid pressure applying device (15) for introducing the treating liquid from a tank (16) for said treating liquid into said pressure vessel (12) to fill up the vessel (12) with the liquid and apply pressure to inject the liquid into said material (11); a pressure removing tank (18) connected to said pressure vessel (12), whose pressure is previously equalized by gas from a gas pressure applying compressor (14) with the pressure of the pressure vessel (12); and a pressure removing valve (19) which opens to gradually reduce the pressure of said pressure vessel (12) through said pressure removing tank (18); wherein the material (11) is stored and sealed in the pressure vessel (12); the pressure of the pressure vessel (12) is reduced by the pressure reducing pump (13), the treating liquid is introduced from the tank (16) to the pressure vessel (12) to fill up the vessel (12) with the liquid and apply pressure to inject the liquid into the material in the pressure vessel (12); the gas is applied from the gas applying compressor (14) to the pressure removing tank (18) to previously equalize the pressure of the tank (18) with that of the pressure vessel (12); and the pressure removing valve (19) is opened to gradually reduce the pressure of the pressure vessel (12) through the pressure removing tank (18) to obtain a liquid injected material product. <IMAGE>

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