

Title (en)

DEVICE FOR HIGH TEMPERATURE HEAT TREATMENT OF LIGNEOUS MATERIAL

Title (de)

VORRICHTUNG ZUR HOCHTEMPERATURWÄRMEBEHANDLUNG VON HOLZARTIGEM MATERIAL

Title (fr)

DISPOSITIF POUR LE TRAITEMENT THERMIQUE A HAUTE TEMPERATURE D'UNE MATIERE LIGNEUSE

Publication

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Application

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Abstract (en)

[origin: WO0053985A1] The invention concerns a device for the high temperature heat treatment of a ligneous material such as wood in order to preserve the properties and dimensional stability of said wood in the presence of humidity. Said device comprises a sealed chamber including an internal partition (19) defining a heat chamber (20) and an opening (21) emerging into a treatment zone (22) wherein a load (11) of stacked wood elements is introduced. The chamber (20) contains burners (23) for heating a heat-conveying medium. A nozzle (26) associated with a deflector enables to homogenize the gas stream emitted by each burner before it enters the treatment zone (22). Ventilators (28) co-operate with the opening (21) to cause the heat-conveying medium to circulate through the load (11). A ramp of water sprayers (30) humidifies the treatment zone (22) when the temperature in the chamber is rising, stabilises said temperature during treatment and cools the chamber after treatment. An adjustable screen (42) maintains a constant pressure in the treatment zone (22). Orifices (44) co-operate with a discharge circuit provided with a sealed regulator valve (49) form means regulating the pressure in the chamber.

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