

Title (en)

A METHOD AND AN APPARATUS FOR INCREASING THE YIELD OF AN AIR DRYING PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER WIRKSAMKEIT EINES LUFTTROCKNUNGSVERFAHRENS

Title (fr)

PROCEDE ET DISPOSITIF SERVANT A AMELIORER L'EFFICACITE D'UN PROCESSUS DE SECHAGE PAR AIR

Publication

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Application

**EP 95943319 A 19951221**

Priority

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Abstract (en)

[origin: WO9621834A1] A method of increasing the yield of an air drying process involves delivering process air to a first process-air chamber (7) in an insulated housing (1) and having a defining wall which accommodates a rotating drying rotor (5). The process air is dehumidified and dried while exchanging moisture with hot regeneration air. The dried and heated process air is sucked into a second process-air chamber (8) which accommodates a high-pressure fan (18) provided with an electric motor (17), such that the process air passes and is heated by the electric motor prior to its delivery to the fan inlet. The pressurized process air of higher temperature is therewith delivered directly to a water-damaged layer or area. The invention also relates to an air drying apparatus which comprises an insulated housing (1) having two mutually delimited chambers (7, 8), of which the first chamber (7) accommodates a low-pressure fan (12) and the second chamber accommodates a high-pressure fan (18) provided with an electric motor (17) and operating in accordance with the method.

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Citation (search report)

See references of WO 9621834A1

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US2022251826A1; EP3530831A1; EP3757307A1; US11988447B2; WO2020251451A1; WO2020251452A1; DE102023106811A1

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