

Title (en)

DRYING APPARATUS AND PROCESS FOR DRYING BULK MATERIAL AND USE OF SAID DRYING APPARATUS TO DRY BULK MATERIAL.

Title (de)

TROCKNUNGSVORRICHTUNG UND VERFAHREN ZUR TROCKNUNG VON SCHÜTTGUT UND VERWENDUNG DER TROCKNUNGSVORRICHTUNG ZUR TROCKNUNG VON SCHÜTTGUT

Title (fr)

APPAREIL DE SÉCHAGE ET PROCESSUS PERMETTANT DE SÉCHER UN MATÉRIAU EN VRAC ET UTILISATION DUDIT APPAREIL DE SÉCHAGE POUR SÉCHER UN MATÉRIAU EN VRAC.

Publication

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Application

EP 10819113 A 20100913

Priority

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Abstract (en)

[origin: WO2011037519A1] The invention relates to a drying apparatus (1) for drying bulk material comprising -a closed circulation conduit (4) being adapted to be filled with a drying medium when said drying apparatus is in operation -a fan (12) connected into said closed circulation conduit for generating a flow of drying medium, -heating means (13) connected to the fan (12) for indirectly heating the drying medium, -inlet feeding means (6) connected to said closed circulation conduit (4) for feeding bulk material into the closed circulation conduit, -a drying enclosure (7) connected to the inlet feeding means (6) wherein said bulk material is dried by transfer of thermal energy from said drying medium, -separating means (8;8') connected to the drying enclosure (7) for separating bulk material from said drying medium, -a surplus steam outlet (14) connected to said closed circulation conduit (4) for releasing surplus steam (10), wherein said separating means (8) comprise a plurality of cyclones (8a-d;8'a-d). The present invention also relates to a process for drying bulk material using said drying apparatus and to the use of said drying apparatus to dry wood based bulk material or agricultural based bulk material. The present invention also relates to a combined heat and power plant comprising said drying apparatus.

IPC 8 full level

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Citation (search report)

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