

Title (en)
PROCESS AND SYSTEM FOR TREATING BULK MATERIAL UTILIZING FLASH AND LEAKAGE STEAM IN A BULK HANDLING SYSTEM

Title (de)
VERFAHREN UND SYSTEM ZUR BEARBEITUNG EINES SCHÜTTGUTMATERIALS MIT BLITZ- UND LECKAGEDAMPF IN EINEM SCHÜTTGUTVERARBEITUNGSSYSTEM

Title (fr)
PROCÉDÉ ET SYSTÈME POUR TRAITER UNE MATIÈRE EN VRAC EN UTILISANT DE LA VAPEUR DE VAPORISATION ET DE FUITE DANS UN SYSTÈME DE TRAITEMENT EN VRAC

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Application
EP 11733149 A 20110111

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• SE 2011050019 W 20110111

Abstract (en)
[origin: WO2011087434A1] The invention relates to a process and system for treating bulk material. In particular the invention relates to drying bulk material in a pneumatic steam dryer and treating the bulk material before and/or after the pneumatic steam dryer in a bulk material handling system. The process for treating bulk material according to the invention comprises -feeding bulk material by an inlet feeding device (131,401) into a steam filled circulation conduit (105) of a pneumatic steam dryer (100) operating above atmospheric pressure -heating said steam by heating means (121), -drying said bulk material in a drying conduit (111) by heat transfer from said steam thereby forming surplus steam, -separating said bulk material from said steam by a first separating means (150), -pneumatically conveying said bulk material suspended in said steam through said drying conduit from said inlet feeding device (131,401) to said first separating means (150), -releasing surplus steam from said circulation conduit (105), -discharging said bulk material by an outlet feeding device (141) from said pneumatic steam dryer thereby generating flash and leakage steam, and utilizing said flash and leakage steam in a bulk material handling system (200;200';200'') connected to said pneumatic steam dryer(100).

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CPC (source: EP SE)
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Citation (search report)
• [A] EP 1843114 A1 20071010 - SWEDISH EXERGY CONSULTING AB [SE]
• [A] DE 10347052 A1 20050504 - SCHENKMANN PIEL ENGINEERING GM [DE]
• [A] US 5263266 A 19931123 - SCHMIDT ALFRED [AT]
• See also references of WO 2011087434A1

Cited by
EP4036470A1; IT202100001607A1

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