

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

Publication  
**EP 2524182 A1 20121121 (EN)**

Application  
**EP 11733149 A 20110111**

Priority  
• US 32943510 P 20100429  
• SE 1050032 A 20100114  
• 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).

IPC 8 full level  
**F26B 17/10** (2006.01)

CPC (source: EP SE)  
**F26B 17/10** (2013.01 - SE); **F26B 17/102** (2013.01 - EP SE); **F23G 2201/10** (2013.01 - EP); **F23G 2900/50206** (2013.01 - EP); **F23K 2201/20** (2013.01 - EP); **F26B 2200/24** (2013.01 - EP)

Cited by  
EP4036470A1; IT202100001607A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011087434 A1 20110721**; DK 2524182 T3 20170116; EP 2524182 A1 20121121; EP 2524182 A4 20150121; EP 2524182 B1 20160928; SE 1050032 A1 20110715; SE 534591 C2 20111018

DOCDB simple family (application)  
**SE 2011050019 W 20110111**; DK 11733149 T 20110111; EP 11733149 A 20110111; SE 1050032 A 20100114