

Title (en)

Device for mechanically treating powder especially nuclear combustion powder.

Title (de)

Einrichtung zum mechanischen Bearbeiten von Pulver, insbesondere Kernbrennstoffpulver.

Title (fr)

Dispositif pour le traitement mécanique de poudres en particulier de poudres combustibles des centrales nucléaires.

Publication

EP 0530636 B1 19950621 (DE)

Application

EP 92114423 A 19920824

Priority

DE 4129652 A 19910906

Abstract (en)

[origin: EP0530636A1] An apparatus for the mechanical treatment of powder has an apportioning vessel (13) having a closable discharge outlet (13b) which can be introduced into a process container (2). Assigned to this apportioning vessel (13) there is a first balance (8). Assigned to a receiving container (23) into which the process container (2) can be emptied there is a second balance (22). A safety device (31) is connected, by its signal input, to the first (8) and the second balance (22) as well as to a first detection device (19) for detecting the ready-to-weigh state of the first balance (8) and to a second detection device (18) for detecting the closed state of the discharge outlet (13b). The signal output of said safety device (31) is connected to a powder delivery device (12). The safety device (31) evaluates the powder weight measured by the first balance (18) if simultaneously the ready-to-weigh state of the first balance (8) and the closed discharge outlet (13b) are indicated. In addition, the safety device (31) sums the powder weights measured by the first balance (8) and delivered into the process container (2), and blocks the conveying device (12) if the sum of the powder weights conveyed from the apportioning vessel (13) into the process container (2) reaches a predetermined first limit value or if the powder weight measured by the second balance (22) in the receiving container (23) after emptying of the process container (2) differs from the sum of the powder weights conveyed into the process container (2) by a predetermined value or more. <IMAGE>

IPC 1-7

B01F 15/04

IPC 8 full level

B28B 13/02 (2006.01); **B01F 15/04** (2006.01); **G01F 11/28** (2006.01); **G21C 19/40** (2006.01); **G21C 21/02** (2006.01); **B01F 3/18** (2006.01)

CPC (source: EP)

B01F 35/881 (2022.01); **B01F 23/60** (2022.01)

Cited by

US8634514B2; WO2007144414A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0530636 A1 19930310; **EP 0530636 B1 19950621**; DE 4129652 A1 19930311; DE 59202600 D1 19950727; JP 3129852 B2 20010131; JP H05249285 A 19930928

DOCDB simple family (application)

EP 92114423 A 19920824; DE 4129652 A 19910906; DE 59202600 T 19920824; JP 26054092 A 19920904