

Title (en)

ARRANGEMENT FOR STORING AND HOMOGENIZING PULVERULENT MATERIAL

Publication

EP 0150249 B1 19880107 (FR)

Application

EP 84101062 A 19840202

Priority

- EP 84101062 A 19840202
- FR 8300113 A 19830105

Abstract (en)

[origin: EP0150249A1] 1. An assembly for the storage and homogenization of powdery products, of the fluidized bed treatment and powdery material transfer type, in which the storage silo (1) is separate from an homogenization chamber (2) and superimposed thereon, the upper part of the storage silo (1) comprising an inlet (3) at several points for crushed raw material, said chamber comprising equidistant gravity transfer orifices (10) as well as a flat bottom (16) slanted towards a discharge outlet, covering the whole of its surface in a zone fluidization arrangement, said storage silo (1) comprising a bottom slab (12) having said transfer orifices (10), the bottom of said storage silo comprising a cone (5) as well as a ring of first fluidization elements (11) disposed about the transfer orifices (10), said storage and homogenization assembly comprising : orifices (15) for feeding the homogenization chamber disposed at its upper part, the outlet (17) from said chamber being disposed laterally at the lower part of this latter at the base of an extraction column (E) ; a material outlet (27) disposed at the upper part of said extraction column ; the transfer orifices (10) of the bottom slab being able to be opened sequentially with an adjustable opening time for each of said orifices, with respect to the feed orifices (4) of the silo, open simultaneously and sequentially ; said storage and homogenization assembly being characterized in that : the bottom slab (12) of the storage silo (1) forms the ceiling of the homogenization chamber, thus ensuring separation between said silo and said chamber ; the cone (5) is a low gradient cone with second fluidization elements (6) ; each of said first (11) and second (6) fluidization elements is formed by a duct (30) having a flat bottom (31) with air inlets (32) and a porous dome (34), said ducts forming the second fluidization elements (6) being disposed along the generatrices of said cone (5).

IPC 1-7

B65D 88/72; **B01F 13/02**

IPC 8 full level

B01F 13/02 (2006.01); **B01F 33/40** (2022.01); **B65D 88/72** (2006.01)

CPC (source: EP)

B01F 33/4092 (2022.01); **B65D 88/72** (2013.01)

Cited by

CN103538825A; CN112707660A; WO0012413A1

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

FR 2538794 A1 19840706; **FR 2538794 B1 19860328**; EP 0150249 A1 19850807; EP 0150249 B1 19880107; EP 0150249 B2 19910424

DOCDB simple family (application)

FR 8300113 A 19830105; EP 84101062 A 19840202