

Title (en)

ARRANGEMENT FOR A DRYING AND/OR HEATING TREATMENT AND GRINDING OF GRANULAR MATERIAL

Publication

EP 0039270 B1 19850731 (FR)

Application

EP 81400594 A 19810414

Priority

FR 8009391 A 19800425

Abstract (en)

[origin: EP0039270A2] 1. Installation for the treatment of a granular material by drying and/or heating and grinding, which comprises, a vertical chamber (1) for fluidisation treatment, a duct (2) for a gaseous fluidisation and entrainment agent leading into the bottom of the chamber, the chamber being fitted, in its lower part, with a rotatable member (5) for impact grinding, the axis (6) of the rotatable member being horizontal, the said chamber having a cross-section which is substantially constant over a height which is at least about 2.5 times the diameter of the rotating movable member, means (7) for introducing the granular material to be treated at the bottom of the said chamber, a pneumatic entrainment duct (9) for the treated material, connected to the upper part of the said fluidisation treatment chamber, and an intermediate zone of reduced apparent cross-section, the said cross-section being smaller than that of the other zones of the chamber but greater than that of the entrainment duct (9), characterised in that this intermediate zone of reduced apparent cross-section is located in the upper half of the vertical chamber (1), at about two-thirds of the height of the said vertical chamber (1).

IPC 1-7

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IPC 8 full level

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Citation (examination)

FR 1311351 A 19621207 - CHARBONNAGES DE FRANCE

Cited by

CN109269260A; FR2924435A1; FR2532734A1; TR24518A; EP0640572A1; EP2940106A4; US8900415B2; WO2009090335A3

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