

Title (en)

Apparatus for the fast and continuous dehumidification of loose materials, particularly pellets for a plastic moulding plant

Title (de)

Vorrichtung zur schnelle und kontinuierliche Entfeuchtung von Schüttgut, insbesondere Granulat für eine Kunststoff-Formanlage.

Title (fr)

Dispositif pour la déshumidification rapide et continue de matières en vrac, notamment de granules pour une machine de moulage de matières plastiques

Publication

**EP 1703239 A3 20111026 (EN)**

Application

**EP 06004205 A 20060302**

Priority

IT TV20050041 A 20050315

Abstract (en)

[origin: EP1703239A2] Continuous apparatus (A) for the fast dehumidification of loose materials (M), particularly pellets for plastic moulding plants, consisting of: -a first vertical container (1) to contain the pellets to be processed; -a second container (2), orthogonal and in communication with said first for the processing of the pellets, with a fluidized bed and longitudinal auger (3), on which microwave generators (5,6) operate; -a circuit for the distribution of a dehumidified airflow at a controlled temperature inside said second container (2); -means for the aspiration of the airflow at a controlled temperature and enriched with humidity from inside said second container (2), for then said airflow to be dehumidified and reintroduced inside said second container (2); -sensor means (22,102,103) for the detection of the temperature and humidity percentage present in the pellets at least in said second container (2).

IPC 8 full level

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CPC (source: EP)

**F26B 3/0923** (2013.01); **F26B 3/343** (2013.01); **F26B 3/347** (2013.01); **F26B 17/20** (2013.01)

Citation (search report)

- [IY] EP 0345020 A2 19891206 - KAWATA CO LTD [JP]
- [Y] US 6189234 B1 20010220 - LUKER WILLIAM A [US]
- [A] US 5205050 A 19930427 - MASAAKI NOSAKA [JP], et al
- [A] FR 2600759 A1 19871231 - ELECTRICITE DE FRANCE [FR], et al
- [A] WO 8201062 A1 19820401 - COURNEYA C [US]

Cited by

CN102261822A; EP2511635A1; ITTV20110050A1; CN106017042A; JP2020525307A; CN114670365A; US11673293B2; WO2015085388A1; WO2013002625A3

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