

Title (en)

Method and apparatus for moisturizing dusting material

Title (de)

Verfahren und Vorrichtung zum Befeuchten von staubenden Material

Title (fr)

Procédé et appareil d'humidification de matériau pulvérulent

Publication

EP 1955759 A3 20090225 (EN)

Application

EP 08397504 A 20080204

Priority

FI 20075072 A 20070202

Abstract (en)

[origin: EP1955759A2] Arrangement for mixing a liquid with a flowing solid substance, comprising a reaction chamber (1), a connection (2) for feeding the flowing solid substance to the reaction chamber (1), a connection (3) for removing the mixed substance from the reaction chamber (1), and a connection (13) for feeding the liquid to the reaction chamber (1). For mixing the liquid there are elements (10) for feeding the liquid to the reaction chamber (1) in the form of droplets and elements (11,12,15) for feeding a compressed gas to the reaction chamber (1). On the central axis of the reaction chamber (1) is preferably arranged a mixer shaft (6), which comprises elements (9-12) for feeding the liquid and the gas to the reaction chamber from the outer surface of the shaft (6).

IPC 8 full level

B01F 33/40 (2022.01)

CPC (source: EP)

B01F 23/53 (2022.01); **B01F 23/54** (2022.01); **B01F 27/1121** (2022.01); **B01F 27/621** (2022.01); **B01F 27/70** (2022.01)

Citation (search report)

- [A] US 4527902 A 19850709 - CHRISTEN WERNER [DE]
- [A] US 5246288 A 19930921 - JETZER JAMES R [US], et al
- [A] US 4546013 A 19851008 - SCHLUETER WILHELM [DE]
- [A] GB 520966 A 19400508 - T S KELSEY LTD, et al
- [A] DE 4411201 A1 19951005 - SCHUERENBERG BETON SPRITZMASCH [DE]
- [A] US 4116163 A 19780926 - TORELLI ALDO, et al
- [A] DE 1667071 A1 19710909 - BUETTNER SCHILDE HAAS AG

Designated contracting state (EPC)

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