

Title (en)

Gravity mixer.

Title (de)

Schwerkraftmischer.

Title (fr)

Mélangeur utilisant la force de gravité.

Publication

EP 0274629 A2 19880720 (DE)

Application

EP 87117443 A 19871126

Priority

DE 3700629 A 19870112

Abstract (en)

[origin: US4775242A] A gravity operated mixing apparatus for pulverulent, granular and liquid materials has an upright vessel with an opening at the top and a sealable pyramidal or conical outlet at the bottom. The opening can be sealed by a closure which carries one or more mixing elements extending into the vessel to contribute to the mixing and/or agglomerating action while the vessel moves up and down and is oscillated or rotated about a horizontal axis to repeatedly raise its contents whereupon the contents descend by gravity and their flow is determined by the number and configuration of mixing elements which need not move relative to the vessel. The vessel can be used as a receptacle for delivery of a charge containing two or more flowable materials to the mixing station as well as for delivery of intermixed materials to the next processing station or stations.

Abstract (de)

Um einen guten Mischeffekt schnell bei schonender Behandlung des Mischgutes zu erreichen, werden in einen Transport- und Lagerbehälter (8, 18) Mischelemente (9, 9a) eingesetzt und der Lagerbehälter einer drehenden oder schwenkenden Bewegung unterworfen, wobei durch die Mischelemente eine stete Gegenstrom-Umlenkung des Mischgutes erfolgt.

IPC 1-7

B01F 9/02

IPC 8 full level

B01F 29/60 (2022.01)

CPC (source: EP US)

B01F 29/32 (2022.01 - EP US); **B01F 29/40221** (2022.01 - EP); **B01F 29/40221** (2022.01 - US)

Cited by

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Designated contracting state (EPC)

AT BE CH DE ES FR GB LI NL SE

DOCDB simple family (publication)

EP 0274629 A2 19880720; **EP 0274629 A3 19880921**; **EP 0274629 B1 19910918**; AT E67428 T1 19911015; DE 3700629 A1 19880721; DE 3773165 D1 19911024; JP H04691 B2 19920108; JP S63175631 A 19880720; US 4775242 A 19881004

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EP 87117443 A 19871126; AT 87117443 T 19871126; DE 3700629 A 19870112; DE 3773165 T 19871126; JP 32845887 A 19871226; US 14273988 A 19880111