

Title (en)

Impeller for discharging of poorly flowable bulk material

Title (de)

Rührorgan zum Austrag schlecht rieselfähiger Schüttgüter

Title (fr)

Agitateur pour déchargement d'une matière en vrac de faible écoulement

Publication

EP 1783073 A1 20070509 (DE)

Application

EP 06019829 A 20060922

Priority

DE 102005052621 A 20051102

Abstract (en)

The method involves rendering a poorly pourable bulk material e.g. sawdust, by a worm conveyor (1), where the worm conveyor is fixed on a shaft (3) and the rotation of the shaft causes the bulk material to be transported upward to a bulk material surface. The poorly pourable bulk material is discharged from a receptacle (4) by a spiral conveyor. The worm conveyor and the spiral conveyor are mechanically coupled to one another. The worm conveyor and the spiral conveyor are fixed on the shaft. An independent claim is also included for a poorly pourable bulk materials discharging device comprising an opening.

IPC 8 full level

B65G 65/48 (2006.01); **G01F 11/20** (2006.01)

CPC (source: EP US)

B65D 88/68 (2013.01 - EP US)

Citation (applicant)

- DE 19706407 C1 19980604 - FRICKE ABFUELLTECHNIK GMBH & C [DE]
- DE 4339974 A1 19950601 - BASF AG [DE]
- JP 2002068483 A 20020308 - YAMADA TATSUYUKI
- JP 2005089157 A 20050407 - SHIN MEIWA IND CO LTD
- JP H07133029 A 19950523 - NIPPON KANKYO CREATE KK

Citation (search report)

- [X] JP H07133029 A 19950523 - NIPPON KANKYO CREATE KK
- [X] JP 2002068483 A 20020308 - YAMADA TATSUYUKI
- [X] JP 2005089157 A 20050407 - SHIN MEIWA IND CO LTD
- [AD] DE 19706407 C1 19980604 - FRICKE ABFUELLTECHNIK GMBH & C [DE]

Cited by

CN109384057A

Designated contracting state (EPC)

AT DE SE

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1783073 A1 20070509; CA 2566955 A1 20070502; CA 2566955 C 20100202; DE 102005052621 A1 20070510; RU 2006138634 A 20080510; US 2007095632 A1 20070503; US 7392895 B2 20080701

DOCDB simple family (application)

EP 06019829 A 20060922; CA 2566955 A 20061102; DE 102005052621 A 20051102; RU 2006138634 A 20061101; US 59193206 A 20061102