

Title (en)

CONTINUOUS FILLING AND RAPID CANNING SYSTEM FOR POWDER MATERIALS

Title (de)

SYSTEM ZUM KONTINUIERLICHEN FÜLLEN UND SCHNELLEN EINDOSEN FÜR PULVERMATERIALIEN

Title (fr)

SYSTÈME DE REMPLISSAGE CONTINU ET DE MISE EN BOÎTE RAPIDE POUR MATÉRIAUX EN POUDRE

Publication

EP 3835219 A4 20220504 (EN)

Application

EP 19877726 A 20190819

Priority

- CN 201811294012 A 20181031
- CN 2019101321 W 20190819

Abstract (en)

[origin: EP3835219A1] A continuous filling and rapid canning system for powder materials includes a feed unit (100), a rotary filling unit (200), a can body input unit (300), and a can body output unit (400). The feed unit (100) includes an annular feed groove (110) and a feed pipe (120). At least two feed ports (111) are provided in the annular feed groove (110). An end of the feed pipe (120) extends into the annular feed groove (110). The rotary filling unit (200) includes a drive element (210), a rotary base (220), a rotary disc (230), and a filling assembly (240). The rotary base (220) and the rotary disc (230) are both mounted on the drive element (210). At least two filling stations are disposed on the rotary base (220). The feed pipe (120) is mounted on an outer ring of the rotary disc (230). Each filling station is connected to the corresponding feed port (111) by the filling assembly (240). The can body input unit (300) is used for conveying can bodies (001) onto the filling stations. The can body output unit (400) is used for moving the filled can bodies (001) away from the filling stations. A material is added in a movement process, and the can bodies do not need to be stopped at set positions, thereby greatly increasing the filling efficiency.

IPC 8 full level

B65B 1/12 (2006.01); **B65B 1/32** (2006.01); **B65B 43/50** (2006.01); **B65B 43/60** (2006.01)

CPC (source: CN EP RU)

B65B 1/02 (2013.01 - RU); **B65B 1/12** (2013.01 - CN EP); **B65B 1/32** (2013.01 - CN EP); **B65B 43/42** (2013.01 - CN); **B65B 43/50** (2013.01 - EP); **B65B 43/60** (2013.01 - EP)

Citation (search report)

- [XYI] JP H11183241 A 19990709 - AJINOMOTO KK
- [Y] CN 204507311 U 20150729 - JOYEA CORP
- [Y] CN 204701854 U 20151014 - JOYEA CORP
- [XI] GB 913726 A 19621228 - HESSER AG MASCHF
- [A] SU 738946 A1 19800605 - TS KT B TS SOYUZA POTREBITELSK [SU]
- See also references of WO 2020088040A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3835219 A1 20210616; **EP 3835219 A4 20220504**; AU 2019370264 A1 20210415; AU 2019370264 B2 20230202; CN 109159929 A 20190108; CN 109159929 B 20240531; NZ 774084 A 20230630; RU 2766141 C1 20220208; WO 2020088040 A1 20200507

DOCDB simple family (application)

EP 19877726 A 20190819; AU 2019370264 A 20190819; CN 201811294012 A 20181031; CN 2019101321 W 20190819; NZ 77408419 A 20190819; RU 2021106474 A 20190819