

Title (en)

Method for mixing powder or granular materials and mixing machine

Title (de)

Verfahren zum Mischen von pulver- und/oder granulatformigen Stoffen sowie Mischmaschine

Title (fr)

Procédé de mélange de matières en forme de poudre et/ou de granulés ainsi que machine de mélange

Publication

EP 2226117 A3 20111123 (DE)

Application

EP 10154240 A 20100222

Priority

DE 202009001937 U 20090304

Abstract (en)

[origin: CN101822955A] A mixing machine 1 includes a mixing head 3 displayed with one or several elements 12 for connecting the same to a container 5 containing a mix to form a closed mixing receptacle containing the mix. The mixing head 3 is mounted pivotably facing a frame 2 in such a way that the mixing receptacle formed from mixing head 3 and container 5 is pivotable to execute the mixing process. The mixing machine 1 further includes a device for producing a mix stream and at least one rotary-driven mixing tool interacting in the mix stream. The mix-stream-producing device is designed to produce a low-energy primary mix-stream as a feed stream for supplying the mix contained in the mixing receptacle to the at least one mixing tool W2 disposed in the mixing head 3 interacting in the primary mix-stream produced by the mix-stream-producing device. The at least one mixing tool W2 is provided to produce a secondary primary mix-stream containing only a fraction of the mix contained in the mixing receptacle as a cross-stream to the primary mix-stream.

IPC 8 full level

B01F 29/64 (2022.01)

CPC (source: EP US)

B01F 23/60 (2022.01 - EP US); **B01F 27/1123** (2022.01 - EP US); **B01F 27/805** (2022.01 - EP US); **B01F 27/90** (2022.01 - EP US); **B01F 33/35** (2022.01 - EP US); **B01F 33/833** (2022.01 - EP US); **B01F 2101/30** (2022.01 - EP US)

Citation (search report)

- [X] FR 2567415 A1 19860117 - GALLAY SA [FR]
- [X] US 5865538 A 19990202 - WALKER THOMAS R [US], et al
- [X] DE 4104399 A1 19920820 - RUBERG MISCHTECHNIK KG [DE]

Cited by

DE102012101197A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

DE 202009001937 U1 20090430; CN 101822955 A 20100908; CN 101822955 B 20141029; EP 2226117 A2 20100908; EP 2226117 A3 20111123; EP 2460581 A1 20120606; EP 2460581 B1 20170719; ES 2642667 T3 20171117; PT 2460581 T 20171019; US 2010226200 A1 20100909; US 8678639 B2 20140325

DOCDB simple family (application)

DE 202009001937 U 20090304; CN 201010122207 A 20100226; EP 10154240 A 20100222; EP 12157516 A 20100222; ES 12157516 T 20100222; PT 12157516 T 20100222; US 71716610 A 20100304