

Title (en)
Horizontal mixer with scrapers

Title (de)
Horizontalmischer mit Abstreifern

Title (fr)
Mixeur horizontal avec racleurs

Publication
EP 1854532 A1 20071114 (DE)

Application
EP 07101538 A 20070201

Priority
DE 102006022660 A 20060512

Abstract (en)
The horizontal mixer for the production of highly viscous product, comprises a cylindrical mixing tank and a horizontally-running shaft, which is arranged in the mixing tank and which is connected with an agitating blade (120) and a scraper unit (50, 60) by which a deepest point of the interior of the mixer is reached. The agitating blade is designed in such a manner that it can lift up the product to be mixed from the deepest point of the mixer. The scraper unit is attached in a form-closed manner such a way that it is pressed against an interior wall of the mixing tank. The horizontal mixer for the production of highly viscous product, comprises a cylindrical mixing tank and a horizontally-running shaft, which is arranged in the mixing tank and which is connected with an agitating blade (120) and a scraper unit (50, 60) by which a deepest point of the interior of the mixer is reached. The agitating blade is designed in such a manner that it can lift up the product to be mixed from the deepest point of the mixer. The scraper unit is attached in a form-closed manner such a way that it is pressed against an interior wall of the mixing tank by the product to be mixed during the mixing process. In the standby state of the mixer, a gap exists between the scraper unit and the adjacent interior wall. The scraper units are dimensioned and positioned in such a way that they completely access the inner wall of the cylinder jacket. Pelton wheel-like shovel, ploughshare shovel and/or a modified ploughshare shovel are used as the agitating blade. The scraper unit is connected to an arm (45) of the agitating blade by another arm. The arm is not directly adjacent to a frontal wall. The agitator blade is adjacent to a frontal wall and a scraper unit is attached to the side of the agitator blade that is adjacent to the frontal wall. An independent claim is included for a procedure for cleaning a mixer.

Abstract (de)
Die Erfindung betrifft einen Horizontalmischer mit einem zylinderförmigen Mischbehälter und einer im Mischbehälter befindlichen horizontal verlaufenden Welle (110), die mit wenigstens einem Mischwerkzeug (120) und wenigstens einem Abstreifer (50,60,70,80) verbunden ist, mit dem ein oder der tiefste Punkt des Innenraums des Mixers erreicht werden kann.

IPC 8 full level
B01F 7/00 (2006.01); **B01F 7/04** (2006.01); **B01F 15/00** (2006.01); **B08B 3/10** (2006.01); **B08B 9/08** (2006.01)

CPC (source: EP US)
B01F 27/091 (2022.01 - EP US); **B01F 27/70** (2022.01 - EP US)

Citation (applicant)
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Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1854532 A1 20071114; CN 101108318 A 20080123; DE 102006022660 A1 20071115; JP 2007301558 A 20071122; US 2007263480 A1 20071115

DOCDB simple family (application)
EP 07101538 A 20070201; CN 200710102930 A 20070511; DE 102006022660 A 20060512; JP 2007124792 A 20070509; US 74615507 A 20070509