

Title (en)
APPARATUS FOR PRODUCING HIGHLY HOMOGENOUS MULTI-COMPONENT SUSPENSIONS, MIXTURES, POWDERS, AND MATERIALS

Title (de)
VORRICHTUNG ZUR HERSTELLUNG VON IN HOHEM MASSE HOMOGENEN SUSPENSIONEN, MISCHUNGEN, PULVERN UND MATERIALIEN AUS MEHREREN BESTANDTEILEN

Title (fr)
INSTALLATION POUR PRODUIRE DES SUSPENSIONS, DES MÉLANGES, DES POUDRES ET DES MATÉRIAUX HAUTEMENT HOMOGÈNES À COMPOSANTS MULTIPLES

Publication
EP 2647424 A1 20131009 (EN)

Application
EP 11835307 A 20110930

Priority
• RU 2011138888 A 20110923
• RU 2011000754 W 20110930

Abstract (en)
The invention relates to equipment for producing highly homogenous multi - component suspensions, mixtures, powders, and materials and can be used in many manufacturing industries, for example, the food industry, health care industry, agriculture, construction, oil production, mining, and electronics, where highly homogenous mixtures, highly homogenous suspensions, and highly concentrated viscous suspensions are required. Apparatus for producing highly homogeneous multi - component suspensions, mixtures, powders, and materials that comprises an actuator connected functionally to a control unit; thermostat station; working liquid container; washing liquid container; receiver of gaseous medium for drying and bubbling purposes; an electromagnetic radiation source (11), and a control and monitoring panel, the actuator comprising a housing (13) with a charging system (5) and a discharging system (6); an inlet cone (14); a material forced- feed mechanism (16); a conical base (18) of the external working zone element (19) having an individual reciprocation drive (20) for movement relative to the longitudinal axis thereof and a conical base (21) of the internal working zone element (22) having an individual drive (23) for reversing the rotation thereof, the conical bases of the external and internal working zone elements being provided with cavities (25, 26) and channels (27, 28) for the flow of a temperature stabilizing agent, and the conical base of the external working zone element being provided with channels (29) for liquid and/or gaseous ingredients to be delivered to the working zone (24) to produce a working medium and with channels (30) to supply liquid and/or gas for washing, drying, and bubbling purposes.

IPC 8 full level
B01F 7/00 (2006.01); **B01F 11/00** (2006.01); **B01F 13/00** (2006.01); **B01F 13/10** (2006.01); **B01F 15/02** (2006.01); **B02C 2/00** (2006.01); **B02C 2/10** (2006.01); **B02C 19/18** (2006.01)

CPC (source: EP)
B01F 27/1141 (2022.01); **B01F 27/2723** (2022.01); **B01F 31/56** (2022.01); **B01F 33/053** (2022.01); **B01F 33/82** (2022.01); **B01F 35/71775** (2022.01); **B02C 2/005** (2013.01); **B02C 2/007** (2013.01); **B02C 2/10** (2013.01); **B02C 19/18** (2013.01)

Citation (search report)
See references of WO 2013043079A1

Cited by
CN108970772A; CN108543581A; CN111249962A; CN106621956A; CN108479611A

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 2647424 A1 20131009; RU 2011138888 A 20130327; RU 2491117 C2 20130827; WO 2013043079 A1 20130328

DOCDB simple family (application)
EP 11835307 A 20110930; RU 2011000754 W 20110930; RU 2011138888 A 20110923