Title (en)
   Mixing and dispersing device

Title (de)
   Misch- und Ausgabevorrichtung

Title (fr)
   Dispositif de mélange et de dispersion

Publication
   EP 2609997 A1 20130703 (EN)

Application
   EP 12194952 A 20121130

Priority
   JP 2011283054 A 20111226

Abstract (en)
   A mixing and dispersing device is provided with a partition plate (122) dividing a fluidity material side area (E1) on an inlet port (111) side for the
   fluidity material and a powder side area (E2) on an inlet port (121 b) side for the powder material; rotary vanes (130) that are arranged rotatably in a
   fluidity material side area (E1) and that send radially outward fluidity material drawn from a radial inside thereof; and an inducing member (140) that
   has fluidity material guide passages (141) for speeding up and sending out the fluidity material sent from the rotary vanes (130), toward a mixing
   area being further radially outside thereof and that induces the powder material in the powder side area (E2) to the mixing area with the flow of the
   fluidity material in the mixing area. The inducing member (140) is rotated in an opposite direction to the rotational direction of the rotary vanes (130).

IPC 8 full level
   B01F 3/12 (2006.01); **B01F 7/00** (2006.01); **B01F 25/64** (2022.01); **H01M 4/04** (2006.01); **H01M 4/139** (2010.01)

CPC (source: EP)
   B01F 23/53 (2022.01); **B01F 27/411** (2022.01)

Citation (applicant)
   • JP 2010033786 A 20100212 - MITSUI MINING & SMELTING CO
   • JP 2005537912 A 20051215
   • US 6997598 B2 20060214 - DING NAN [CN]
   • JP H05187398 A 19930727 - HITACHI LTD

Citation (search report)
   • [AD] JP H05187398 A 19930727 - HITACHI LTD
   • [AD] US 6997598 B2 20060214 - DING NAN [CN]
   • [A] GB 665981 A 19520206 - ROBERT JOHN JAY
   • [A] DE 2216986 A1 19721109

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

Designated extension state (EPC)
   BA ME

DOCDB simple family (publication)
   EP 2609997 A1 20130703; CN 103170269 A 20130626; JP 2013132573 A 20130708

DOCDB simple family (application)
   EP 12194952 A 20121130; CN 201210519666 A 20121206; JP 2011283054 A 20111226