

Title (en)  
Mixing and dispersing device

Title (de)  
Misch- und Ausgabevorrichtung

Title (fr)  
Dispositif de mélange et de dispersion

Publication  
**EP 2609999 A1 20130703 (EN)**

Application  
**EP 12194955 A 20121130**

Priority  
JP 2011283053 A 20111226

Abstract (en)  
A mixing and dispersing device is provided with ante-mixing rotary vanes (130) and post-mixing rotary vanes (150). The ante-mixing rotary vanes (130) are rotatably arranged in a fluidity material side area (E1) and send fluidity material drawn from a radial inside thereof to a first-stage mixing area (E3) being radially outside of a partition plate (120) and induce powder material in a powder side area (E2) to the first-stage mixing area (E3). The post-mixing rotary vanes (150) are arranged in a second-stage mixing area (E4) that is on a downstream side of the first-stage mixing area (E3) and that differs from the first-stage mixing area (E3) in an axial direction, and disperse mixed material of the fluidity material and the powder material flowing from the first-stage mixing area (E3) to the second-stage mixing area (E4) to send out the mixed material to a discharge port (113) being radially outside thereof.

IPC 8 full level  
**B01F 25/64** (2022.01); **B01F 25/74** (2022.01)

CPC (source: EP)  
**B01F 23/53** (2022.01); **B01F 25/741** (2022.01); **B01F 25/743** (2022.01); **B01F 27/2711** (2022.01); **B01F 33/821** (2022.01); **B01F 2025/915** (2022.01)

Citation (applicant)  
• JP 2010033786 A 20100212 - MITSUI MINING & SMELTING CO  
• JP 4458536 B2 20100428  
• JP 2011052638 A 20110317 - TEIKOKU DENKI SEISAKUSHO KK

Citation (search report)  
• [XA] DE 2031836 A1 19711230 - DRAISWERKE GMBH  
• [A] EP 0320480 A1 19890614 - IVARSON NEMO  
• [A] DE 2216986 A1 19721109  
• [A] JP H01262935 A 19891019 - KIBUN KK  
• [A] EP 0688598 A1 19951227 - DOW CORNING TORAY SILICONE [JP]  
• [A] GB 2169814 A 19860723 - HUNKEN KK  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 2609999 A1 20130703**; CN 103170261 A 20130626; JP 2013132572 A 20130708

DOCDB simple family (application)  
**EP 12194955 A 20121130**; CN 10210530127 A 20121210; JP 2011283053 A 20111226