

Title (en)

DIGITALLY CROSSLINKED MIXING AND/OR HOMOGENISATION SYSTEM

Title (de)

DIGITAL VERNETZTES MISCH- UND/ODER HOMOGENISIERANLAGENSYSYSTEM

Title (fr)

SYSTÈME DE MÉLANGE ET / OU D'HOMOGÉNÉISATION NUMÉRIQUE EN RÉSEAU

Publication

EP 3578251 B1 20220629 (DE)

Application

EP 19179094 A 20190607

Priority

DE 102018113766 A 20180608

IPC 8 full level

B01F 27/90 (2022.01); **B01F 35/21** (2022.01); **B01F 35/212** (2022.01); **B01F 35/22** (2022.01); **B01F 35/221** (2022.01)

CPC (source: EP)

B01F 27/90 (2022.01); **B01F 35/211** (2022.01); **B01F 35/212** (2022.01); **B01F 35/2205** (2022.01); **B01F 35/2209** (2022.01);
B01F 35/22142 (2022.01)

Citation (examination)

- DE 202014003774 U1 20150810 - SYMEX GMBH & CO KG [DE]
- US 2015238914 A1 20150827 - LUHARUKA RAJESH [US], et al
- JP S57173113 A 19821025 - MITSUBISHI HEAVY IND LTD
- DE 102014204824 A1 20150917 - INVENT UMWELT & VERFAHRENSTECH [DE]
- DATABASE WPI Section Ch Week 201839, Derwent World Patents Index; Class J02, AN 2018-39037V

Citation (opposition)

Opponent : NETZSCH Vakumix GmbH

- US 5403088 A 19950404 - KILLMER DONALD H [US], et al
- US 2016256839 A1 20160908 - DICKSON JR THOMAS D [US], et al
- EP 1693102 A2 20060823 - KNAPE SANDRA [DE]
- US 2014269154 A1 20140918 - KOLAR DAVID [US], et al
- DE 202014003774 U1 20150810 - SYMEX GMBH & CO KG [DE]
- US 2015238914 A1 20150827 - LUHARUKA RAJESH [US], et al
- CN 207307697 U 20180504 - YINGDE CAIHUAN NANOMETER TECH CO LTD
- JP S57173113 A 19821025 - MITSUBISHI HEAVY IND LTD
- DE 102014204824 A1 20150917 - INVENT UMWELT & VERFAHRENSTECH [DE]
- CN 202971913 U 20130605 - LIBAI DAILY CHEMICAL CO LTD
- WO 2014118049 A1 20140807 - TETRA LAVAL HOLDINGS & FINANCE [CH]
- US 2014188282 A1 20140703 - WEST LARRY EUGENE [US]
- KR 20110006370 A 20110120 - WOJIN CO LTD [KR]
- WO 2015000786 A1 20150108 - TETRA LAVAL HOLDINGS & FINANCE [CH]
- DE 102010028774 A1 20111110 - OTC GMBH [DE]
- ANONYMOUS: "Vakuumprozessanlage", 10 April 2018 (2018-04-10), pages 1 - 5, XP093087222, Retrieved from the Internet <URL:https://de.wikipedia.org/w/index.php?title=Vakuumprozessanlage&oldid=176342633> [retrieved on 20230929]
- "An Introduction to predictive maintenance second edition ", 1 January 2002, ELSEVIER , ISBN: 978-0-7506-7531-4, article ANONYMOUS: "An Introduction to predictive maintenance", pages: 1 - 8, XP093087263
- CHENG K.: "E-Manufacturing : Fundamentals and Applications", vol. 1, 1 January 2005, WIT PRESS, ISBN: 978-1-85312-998-8, article YANG S.H.: "Remote control and condition monitoring", pages: 1 - 36, XP093087232, DOI: 10.2495/978-1-85312-998-8/08

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 3578251 A2 20191211; **EP 3578251 A3 20191225**; **EP 3578251 B1 20220629**; DE 102018113766 A1 20191212;
DE 202019006042 U1 20240419

DOCDB simple family (application)

EP 19179094 A 20190607; DE 102018113766 A 20180608; DE 202019006042 U 20190607