

Title (en)
LIQUID, HYBRID UV/VIS RADIATION CURABLE RESIN COMPOSITIONS FOR ADDITIVE FABRICATION

Title (de)
FLÜSSIGE HYBRIDE UV/VIS-STRAHLUNGSHÄRTBARE HARZZUSAMMENSETZUNGEN ZUR GENERATIVEN FERTIGUNG

Title (fr)
COMPOSITIONS DE RÉSINES LIQUIDES DURCISSABLES PAR UN RAYONNEMENT HYBRIDE UV/VIS POUR UNE FABRICATION ADDITIVE

Publication
EP 3294780 A4 20181121 (EN)

Application
EP 16808207 A 20160608

Priority
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• US 2016036483 W 20160608

Abstract (en)
[origin: WO2016200972A1] Liquid radiation curable compositions are disclosed which are suitable for hybrid (i.e. cationic and free-radical) polymerization when processed via additive fabrication equipment utilizing sources of actinic radiation with peak spectral intensities in the UV/vis region. Also disclosed are methods of creating three-dimensional parts via additive fabrication processes utilizing sources of actinic radiation with peak spectral intensities in the UV/vis region employing liquid radiation curable compositions suitable for hybrid polymerization, and the parts cured therefrom.

IPC 8 full level
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CPC (source: EP KR)
C08F 16/12 (2013.01 - KR); **C08F 283/10** (2013.01 - KR); **C08G 59/68** (2013.01 - EP KR); **C08G 65/18** (2013.01 - EP KR); **C08L 29/10** (2013.01 - KR); **C08L 63/00** (2013.01 - EP KR); **C08L 71/02** (2013.01 - KR); **G03F 7/0037** (2013.01 - EP); **G03F 7/004** (2013.01 - KR); **G03F 7/0045** (2013.01 - EP); **G03F 7/027** (2013.01 - EP); **G03F 7/028** (2013.01 - KR); **G03F 7/029** (2013.01 - EP); **G03F 7/031** (2013.01 - EP); **G03F 7/038** (2013.01 - EP); **G03F 7/38** (2013.01 - EP)

C-Set (source: EP)
C08L 63/00 + C08L 33/06 + C08L 71/02

Citation (search report)
• [A] EP 2502728 A1 20120926 - DSM IP ASSETS BV [NL]
• [A] EP 2137576 A1 20091230 - HUNTSMAN ADV MAT AMERICAS INC [US]
• [A] WO 2014109303 A1 20140717 - KAWASAKI KASEI CHEMICALS [JP]
• [A] US 2015099127 A1 20150409 - OGAWA HIROSH [JP], et al
• See also references of WO 2016200972A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2016200972 A1 20161215; CN 107636025 A 20180126; CN 107636025 B 20210202; EP 3294780 A1 20180321; EP 3294780 A4 20181121; JP 2018517034 A 20180628; JP 2020090679 A 20200611; JP 2022070865 A 20220513; JP 2024016018 A 20240206; KR 102698770 B1 20240823; KR 20180016505 A 20180214

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US 2016036483 W 20160608; CN 201680033322 A 20160608; EP 16808207 A 20160608; JP 2017560959 A 20160608; JP 2020011783 A 20200128; JP 2022010953 A 20220127; JP 2023149521 A 20230914; KR 20187000445 A 20160608