

Title (en)

DENTAL COMPOSITE MATERIAL AND MILL BLANKS CONSISTING OF SAID COMPOSITE MATERIAL

Title (de)

DENTALES KOMPOSITMATERIAL SOWIE FRÄSROHLINGE DIESES KOMPOSITMATERIALS

Title (fr)

MATÉRIAU COMPOSITE DENTAIRE ET ÉBAUCHES À FRAISER DE CE MATÉRIAU COMPOSITE

Publication

EP 3654925 A2 20200527 (DE)

Application

EP 18785536 A 20181001

Priority

- DE 102017123009 A 20171004
- EP 2018076600 W 20181001

Abstract (en)

[origin: WO2019068618A2] The invention relates to a polymerizable, dental composite material which comprises (i) 70 to 85 wt.% of at least one inorganic filler component comprising at least one dental glass and optionally at least one amorphous metal oxide, (ii) 10 to 30 wt.% of a mixture of at least two different urethane (meth)acrylates, (iii) 0.01 to 5 wt.% of at least one di-, tri-, tetra- or multi-functional monomer different from urethane (meth)acrylate, and (iv) 0.01 to 10 wt.% of at least one initiator, initiator system and optionally at least one stabilizer and optionally at least one pigment, the total composition of the composite material adding up to 100 wt.%. The invention also relates to a polymerized composite material having a flexural strength of greater than or equal to 200 MPa and an elastic modulus of 15 to 20 GPa for the production of indirect dental prostheses.

IPC 8 full level

A61K 6/00 (2020.01); **A61K 6/884** (2020.01); **A61K 6/893** (2020.01)

CPC (source: EP US)

A61C 5/20 (2017.01 - US); **A61C 5/73** (2017.01 - US); **A61C 5/77** (2017.01 - US); **A61C 8/0016** (2013.01 - US); **A61C 13/0022** (2013.01 - US); **A61C 13/26** (2013.01 - US); **A61K 6/17** (2020.01 - EP US); **A61K 6/30** (2020.01 - US); **A61K 6/77** (2020.01 - EP US); **A61C 2201/00** (2013.01 - US)

Citation (search report)

See references of WO 2019068618A2

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)

DE 102017123009 A1 20190404; CN 111511339 A 20200807; EP 3654925 A2 20200527; JP 2020536081 A 20201210; US 11219505 B2 20220111; US 2020253691 A1 20200813; WO 2019068618 A2 20190411; WO 2019068618 A3 20190620

DOCDB simple family (application)

DE 102017123009 A 20171004; CN 201880064899 A 20181001; EP 18785536 A 20181001; EP 2018076600 W 20181001; JP 2020518648 A 20181001; US 201816753428 A 20181001