

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
11 August 2022 (11.08.2022)



(10) International Publication Number
WO 2022/167686 A1

(51) International Patent Classification:

C08G 59/62 (2006.01) C08G 59/68 (2006.01)

(21) International Application Number:

PCT/EP2022/053016

(22) International Filing Date:

08 February 2022 (08.02.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21155833.3 08 February 2021 (08.02.2021) EP

(71) Applicant: **RAIN CARBON GERMANY GMBH**
[DE/DE]; Kekuléstraße 30, 44579 Castrop-Rauxel (DE).

(72) Inventors: **LIU, Jun**; Bachstraße 133, Düsseldorf 40217 (DE). **RAUSER, Marian**; Unterwallstr. 42, 47441 Moers (DE).

(74) Agent: **COHAUSZ & FLORACK PATENT- UND RECHTSANWÄLTE PARTNERSCHAFTSGESELLSCHAFT MBB**; Bleichstraße 14, 40211 Düsseldorf (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available):

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: CURABLE EPOXY SYSTEMS COMPRISING A PHENOLIC POLYMER

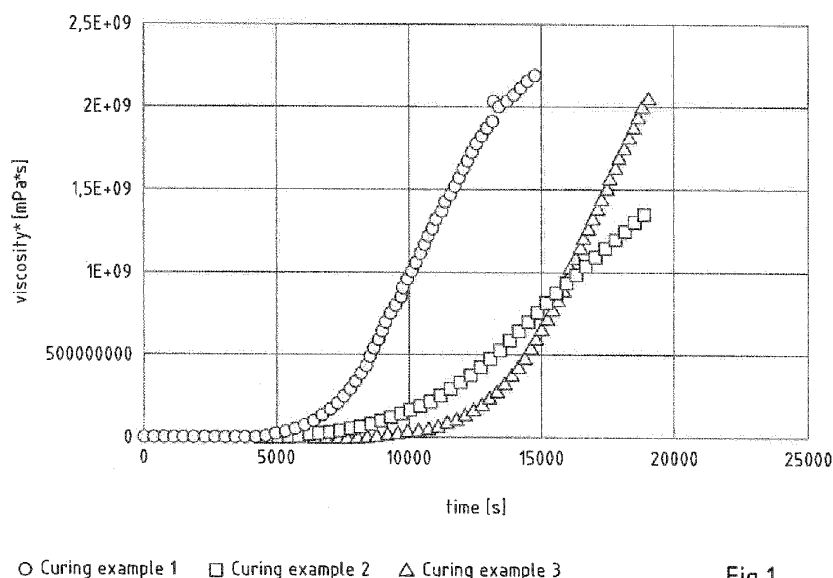


Fig.1

(57) Abstract: Herein described is an epoxy system comprising an epoxy resin and a phenolic polymer having a number average molar mass M_n of from 200 to 1,500 g/mol. Use of the phenolic polymer in epoxy resins provides for accelerated curing of the epoxy resins.