



(51) International Patent Classification:

C08L 79/08 (2006.01) *C08K 5/53* (2006.01)
C08K 5/51 (2006.01)

NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA,
ZM, ZW.

(21) International Application Number:

PCT/IN2013/000207

(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, 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, ML, MR, NE, SN, TD, TG).

(22) International Filing Date:

28 March 2013 (28.03.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

932/MUM/2012 29 March 2012 (29.03.2012) IN

(72) Inventor; and

(71) Applicant : GHARDA, Keki Hormusji [IN/IN]; Gharda House, 48 Hill Road, Bandra (West), Mumbai-400 050, Maharashtra (IN).

(74) Agent: MOHAN DEWAN; R. K. Dewan & Company, Trade Mark & Patent Attorneys, Podar Chambers, S.A.Bre-lyi Road, Fort, Mumbai 400 001, Maharashtra (IN).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

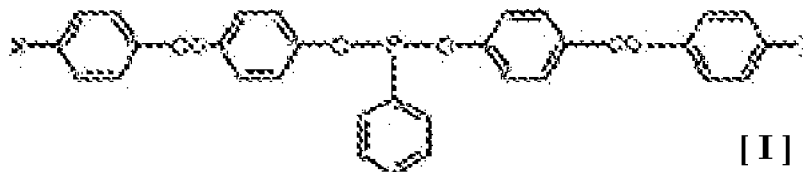
- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,

(88) Date of publication of the international search report:

9 January 2014

(54) Title: STABLE POLYETHERKETONES THERMOPLASTIC POLYMER



[I]

(57) Abstract: A stable polyetherketones thermoplastic polymer comprises: a) a polyetherketone of the formula -Ar-CO-, wherein Ar is a bivalent aromatic radical; and b) aryl phosphonite compound of formula I (The formula I should be inserted here.), wherein X is selected from the group consisting of Cl, Br and F, the amount of said phosphonite compound being in the range of 0.01 to 4% by weight of the total composition.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IN2013/000207

A. CLASSIFICATION OF SUBJECT MATTER

See the extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: C08L 79/-, C08K 5/-

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, CNKI, CNPAT, CA, STN: polyetherketone, phosphonite, phosphonate, stabilizer, antioxidant, dichlorophenyl, phosphine, benzophenone, benzoyl, phenol, benzene, phosphorus, triphenyl, PCl_3

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011245367 A1 (SURMODICS INC.) 06 October 2011 (06.10.2011)	7-10
A	description, paragraphs [0039]-[0040], [0066] and [0073]	1-6
A	GB 1446962 A (IMPERIAL CHEMICAL INDUSTRIES LIMITED) 18 August 1976 (18.08.1976) description, page 2, lines 39-40, page 3, lines 1-25 and example 1	1-10

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“A” document defining the general state of the art which is not considered to be of particular relevance	“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
“E” earlier application or patent but published on or after the international filing date	“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
“L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	“&” document member of the same patent family
“O” document referring to an oral disclosure, use, exhibition or other means	
“P” document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 15 October 2013 (15.10.2013)	Date of mailing of the international search report 21 Nov. 2013 (21.11.2013)
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer GAO, Xiaowei Telephone No. (86-10)82246856

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IN2013/000207

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US 2011245367 A1	06.10.2011	EP 2552927 A1	06.02.2013
		US 2012046384 A2	23.02.2012
		MX 2012011061 A1	31.01.2013
		JP 2013523751 A	17.06.2013
		WO 2011123441 A1	06.10.2011
		CA 2794795 A1	06.10.2011
		CN 102869671 A	09.01.2013
GB 1446962 A	18.08.1976	US 948008 H	06.07.1976

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IN2013/000207

Continuation of A. CLASSIFICATION OF SUBJECT MATTER:

C08L 79/08 (2006.01) i

C08K 5/51 (2006.01) i

C08K 5/53 (2006.01) i