



(51) International Patent Classification:
C08J 11/00 (2006.01)

(21) International Application Number:
PCT/IB20 15/002220

(22) International Filing Date:
26 November 2015 (26.11.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
5928/CHE/2014 26 November 2014 (26.11.2014) IN

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(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, IR, IS, JP, KE, KG, KN, KP, KR, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H))
- 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))

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

18 August 2016

(54) Title: PROCESS OF FABRICATION OF SUBMICRON ALIGNED HYDROPHOBIC AND OLEOPHILIC FIBRE FROM POLYSTYRENE WASTE WITH CONTROLLABLE GEOMETRY USING-CITRUS PEEL EXTRACT AS SOLVENT

(57) Abstract: The present invention discloses a simple mechanical method of fabrication of sub-micron aligned free standing hydrophobic and oleophilic fibers of polystyrene waste using extracts obtained from the peel of any citrus fruit such as orange, lemon, sweet lime, kinnow etc. as solvent. Fibers are aligned and useful in making different geometries. Process of making film using this process is facile and fast and film obtained is free standing film. Process set-up have minimum requirement and is inexpensive. This method is simple and flexible with respect to set-up and process. This process has the potential of being industrialized. Therefore, this method can be beneficial in dealing with both the orange peel and polystyrene waste.



WO 2016/083883 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2015/002220

A. CLASSIFICATION OF SUBJECT MATTER
C08J11/00 Version=2016 .01

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)

C08 J

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)

DATABASE: IPO INTERNAL DATABASE, PATSEER
SEARCH TERMS: CITRUS PEEL, POLYSTYRENE, FIBER ETC.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
L, X	"SPIDER WEB - Create Spider-man's Web at Home, Kids Creativity, Playtime at Home #2", Uploaded by Choo Choo Trains Toddlers, Published on Jan 3, 2014. (Video length: 1 minute) https://www.youtube.com/watch?v=6Uh6IubaY08	1-6
L, X	"How To Make Spider Web With Orange Peel", Uploaded by Wendi Phan, Published on Oct 31, 2014. (Video length : 5.24 minutes) https://www.youtube.com/watch?v=Uw jVkvvnmy4	1-6
L, X	"How To Create Spider man's Web With Orange Peel", Uploaded by Amos Ben, Published on Apr 17, 2014. (Video length : 2.09 minutes) https://www.youtube.com/watch?v=S1mMW2 stJfU	1-6
L, Y	"SPIDER WEB - Create Spider-man's Web at Home, Kids Creativity, Playtime at Home #2", Uploaded by Choo Choo Trains Toddlers, Published on Jan 3, 2014. (Video length: 1 minute) https://www.youtube.com/watch?v=6Uh6IubaY08	7-9



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* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

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"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

"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

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Date of the actual completion of the international search

15-06-2016

Date of mailing of the international search report

15-06-2016

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2015/002220

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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L, Y	"How To Make Spider Web With Orange Peel", Uploaded by Wendi Phan, Published on Oct 31, 2014. (Video length : 5.24 minutes) https://www.youtube.com/watch?v=Uw_jVkvvnmy4 -----	7-9
L, Y	"How To Create Spider man's Web With Orange Peel", Uploaded by Amos Ben, Published on Apr 17, 2014. (Video length : 2.09 minutes) https://www.youtube.com/watch?v=SlmMW2st_JfU	7-9