

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 July 2009 (23.07.2009)

PCT

(10) International Publication Number
WO 2009/090308 A3

(51) International Patent Classification:
B01D 17/04 (2006.01) B01D 39/20 (2006.01)
B01D 39/16 (2006.01)

(21) International Application Number:
PCT/FI2009/050033

(22) International Filing Date:
15 January 2009 (15.01.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/014,864 16 January 2008 (16.01.2008) US

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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, BR, BW, BY, BZ,

CA, CH, 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, NO,
NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,
SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (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, SE, SI, SK, TR),
OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

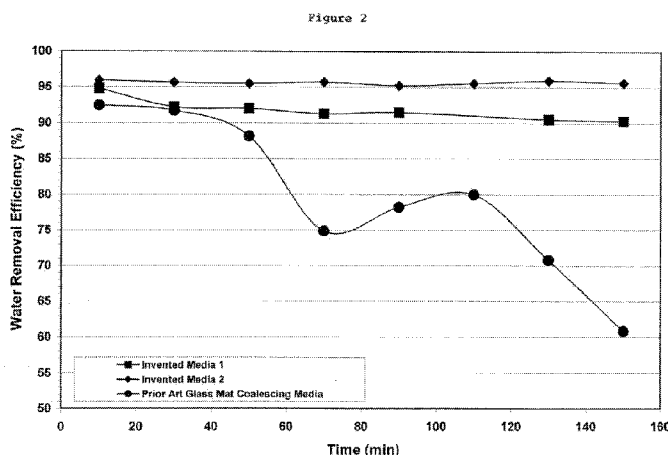
- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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

[Continued on next page]

(54) Title: COALESCENCE MEDIA FOR SEPARATION OF WATER-HYDROCARBON EMULSIONS



(57) Abstract: A coalescence media for separation of water-hydrocarbon emulsions comprises an emulsion-contacting sheet formed of: (a) at least one component of the group consisting of natural fibers, cellulose fibers, natural-based fibers, and cellulose-based fibers, at least one component of the group consisting of high-surface-area fibrillated fibers, surface-area-enhancing synthetic material, glass microfibers, and nanoceramic functionalized fibers; and (c) at least one component of the group consisting of a dry strength additive, and a wet strength additive, wherein the fibrous components of the media constitute at least about 70% of the media. In preferred embodiments, the coalescence media comprises kraft fibers, fibrillated lyocell fibers, glass microfibers or nanoceramic functionalized fibers, a wet strength additive, and a dry strength additive. Preferably, the coalescence media is formed as a single, self-supporting layer from a wet-laid process using a homogeneously distributed, wet-laid furnish. It may also be formed as a multi-layer structure.



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— *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:
5 November 2009

INTERNATIONAL SEARCH REPORT

International application No

PCT/FI2009/050033

A. CLASSIFICATION OF SUBJECT MATTER

INV. B01D17/04 B01D39/16 B01D39/20

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)

B01D

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search

8 September 2009

Date of mailing of the international search report

16/09/2009

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/FI2009/050033

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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International application No

PCT/FI2009/050033

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