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[Continued on next page]

(54) Title: FILTER MEDIUM AND WATER FILTRATION SYSTEM INCLUDING THE SAME

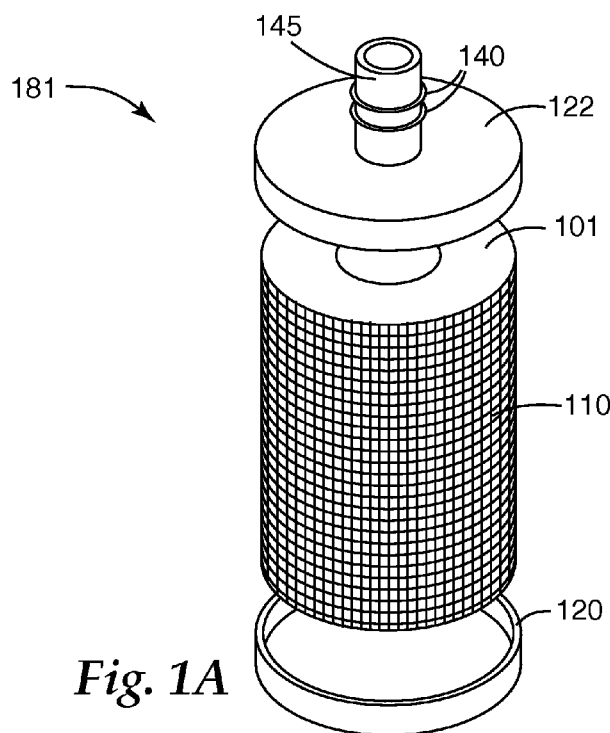


Fig. 1A

(57) Abstract: A filter medium comprises: a) 55 to 80 percent by weight of activated carbon particles having a D_{50} of 70 to 130 micrometers and a D_{10} of 25 to 50 micrometers; b) 5 to 20 percent by weight of first catalytic activated carbon particles having a D_{50} in a range of 20 to 40 micrometers and a D_{10} of 2 to 20 micrometers; and c) 10 to 30 percent by weight of a thermoplastic binder that binds at least the activated carbon particles and the catalytic activated carbon particles into a porous unitary body, wherein the percent by weight of components a) - c) is based upon a total weight of components a) - c). A water filtration system including the filter medium is also disclosed.



(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).

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. B01J20/20 B01J20/28 C02F1/28 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)

B01J C02F 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, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 368 504 B1 (KUENNEN ROY W [US] ET AL) 9 April 2002 (2002-04-09) column 4, line 9 - line 16 column 4, line 2 - line 4 column 3, line 17 - line 19 column 7, line 55 - line 60; figure 7 column 6, lines 37-62, 63 column 2, line 42 - line 43 column 2, line 17 column 7, line 10 - line 11 ----- -/--	1-14

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

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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