

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 November 2022 (17.11.2022)



(10) International Publication Number
WO 2022/238255 A1

(51) International Patent Classification:
B01D 25/26 (2006.01) *B01D 25/32* (2006.01)

(21) International Application Number:
PCT/EP2022/062292

(22) International Filing Date:
06 May 2022 (06.05.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
21305622.9 12 May 2021 (12.05.2021) EP

(71) Applicant: **ALFA LAVAL MOATTI SAS** [FR/FR]; La
Clef Saint Pierre, 10 rue du Maréchal de Lattre de Tassigny,
78990 ELANCOURT (FR).

(72) Inventor: **NICOLLE, Adrien**; 15 Rue de Coulanges,
78990 ELANCOURT (FR).

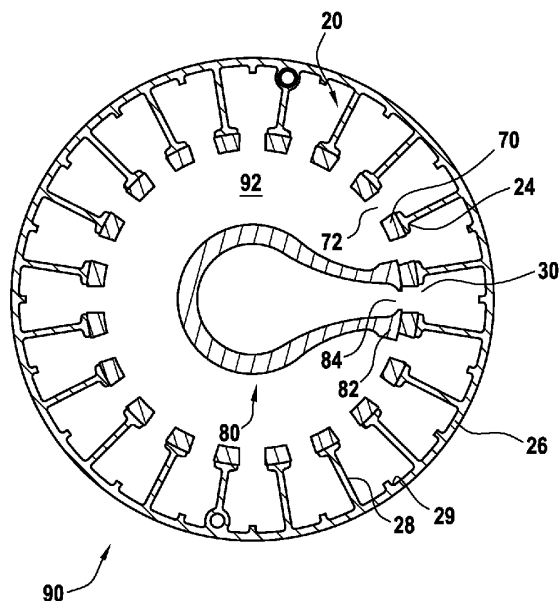
(74) Agent: **ALFA LAVAL ATTORNEYS, ALFA LAVAL
CORPORATE AB**; Group Patent, P.O. Box 73, SE-221 00
LUND (SE).

(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, IQ, IR, IS, IT, JM, 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,

(54) Title: FILTER

FIG.5



(57) Abstract: A filter (100) comprising a casing (110) and a plurality of filtering elements (11) stacked between a first cover (50) and a second cover (60), wherein the first cover (50) rests against the casing (110) in a stacking direction of the filtering elements, wherein the filter further comprises a cover backing (40) coupled to the second cover (60) by a return system (44) configured to return the second cover (60) towards the first cover (50), wherein the cover backing (40) rests against the casing (110) in the stacking direction and the second cover (60) separates a zone (118a) of the casing adapted to receive filtered fluid from a zone (114a) of the casing adapted to receive fluid to filter.

[Continued on next page]

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:

— *of inventorship (Rule 4.17(iv))*

Published:

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