



(51) International Patent Classification:

B01D 47/06 (2006.01) **B01D 53/14** (2006.01)
B01D 47/08 (2006.01)

(21) International Application Number:

PCT/EP2013/050834

(22) International Filing Date:

17 January 2013 (17.01.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12151372.5 17 January 2012 (17.01.2012) EP

(71) Applicant: PURETEQ A/S [DK/DK]; Norgesvej 13,
Tved, DK-5700 Svendborg (DK).

(72) Inventor; and

(71) Applicant : SØGAARD, Dennis [DK/DK]; Majas Vej
21, Humlum, DK-7600 Struer (DK).(74) Agent: PÁLSSON, Ingólfur; H.C. Andersens Boulevard
33, DK-1780 Copenhagen V (DK).(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,
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.

(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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: WET-SCRUBBER FOR CLEANING OF POLLUTED GAS SUCH AS FLUE GAS

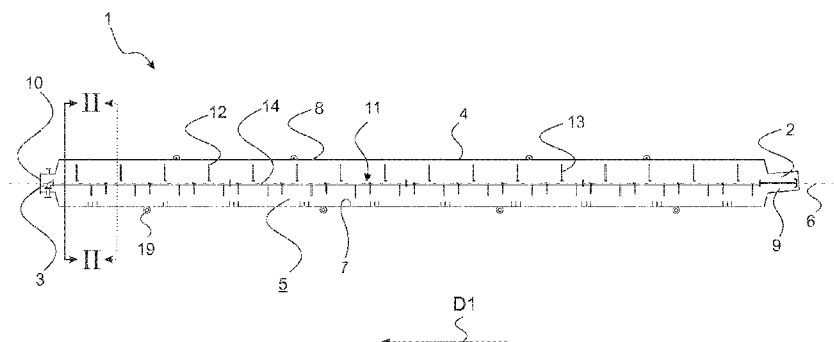


Fig. 1

(57) Abstract: Wet-scrubber for cleaning flue gas, said wet scrubber comprising. The wet scrubber comprises a first end and a second end. Furthermore, it comprises an annular wall extending between the first end and the second end so as to form a chamber having a longitudinal axis, said annular wall and said ends having an inner surface and an outer surface, where said chamber comprises an inlet opening and an outlet opening, said openings being in fluid communication and defining a downstream direction from the inlet opening to the outlet opening. Furthermore, the wet-scrubber comprises a liquid distribution system comprising at least one liquid exit aperture for distributing a liquid film on the inner surface of the chamber. Finally, the wet-scrubber further comprises means arranged to rotate the liquid film on the inner surface of the annular wall relative to the annular wall.