



(43) International Publication Date
26 October 2012 (26.10.2012)

(51) International Patent Classification:
B66D 1/74 (2006.01)

(21) International Application Number: PCT/NL2012/050264

(22) International Filing Date: 19 April 2012 (19.04.2012)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:
61/478,267 22 April 2011 (22.04.2011) US

(71) **Applicant** (*for all designated States except US*): **ITRECO B.V.** [NL/NL]; 2, Admiraal Trompstraat, NL-3115 HH Schiedam (NL).

(72) Inventors; and

(75) **Inventors/Applicants (for US only):** **ROODENBURG, Joop** [NL/NL]; 7, St. Eustatiusstraat, NL-2612 HA Delft (NL). **VAN DUIVENDIJK, Pieter, Dirk, Melis** [NL/US]; 4106 Walkabout Circle, Missouri City, TX 77459 (US).

(74) Agent: **HOLLANDER, M.W.**; P.O. Box 3241, NL-2280
GE Rijswijk (NL).

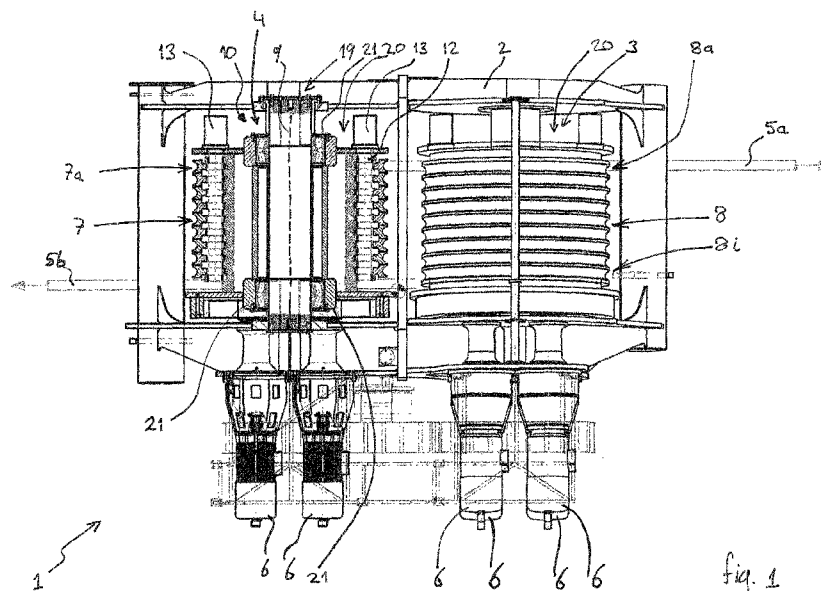
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, 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, MD, 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).

Published:

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

(54) Title: DOUBLE DRUM TRACTION WINCH



(57) Abstract: The invention relates to a double drum traction winch (1) of which the rotatable drums (3,4) are both provided with adjustable grooves (7,8). Each drum comprises multiple, for example three or more, curved segments (11), each segment defining a section of a circumferential groove, such that multiple circumferential grooves on the outer surface of the drum are each composed of several curved segments. The curved segments are each movably supported by a core body (10) for movement in a substantial radial direction relative to the rotational axis of the drum. An actuator mechanism for the curved segments is provided, that comprises actuators (12) that cause essentially radial displacement of the curved segments, such that the circumference of the grooves can be adjusted.