

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 June 2009 (18.06.2009)

PCT

(10) International Publication Number
WO 2009/075584 A1

(51) International Patent Classification:
B65B 69/00 (2006.01)

(74) Agent: **ABC-PATENT, SIVILING. ROLF CHR. B. LARSEN A.S.**; Brynsveien 5, N-0667 Oslo (NO).

(21) International Application Number:
PCT/NO2008/000439

(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.

(22) International Filing Date:
10 December 2008 (10.12.2008)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:
20076376 10 December 2007 (10.12.2007) NO

(71) Applicant (*for all designated States except US*): **NATIONAL OILWELL NORWAY AS** [NO/NO]; Blakstadmarka 26, N-1386 Asker (NO).

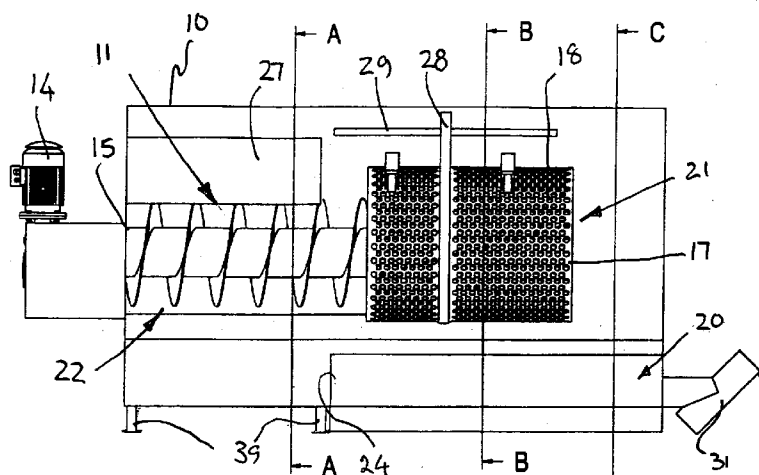
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, 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).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MONGSTAD, Eirik** [NO/NO]; Bergensveien 8, N-0963 Oslo (NO). **RASMUSSEN, Kurt, Allan** [NO/NO]; Hammerbakken 25, N-1352 Kolsås (NO). **EKRENE, Erling** [NO/NO]; Brøholtveien 51, N-3430 Spikkestad (NO). **KLEMETSEN, Thomas** [NO/NO]; Furuveien 10, N-3408 Tranby (NO).

Published:
— with international search report

(54) Title: MEANS FOR EMPTYING PACKAGES



(57) Abstract: The invention relates to a sack cutting means (10) for offshore emptying of content from a package, comprising a means (11) for cutting up the package, means (21) for separating the package from its content and means (20) for removing the emptied package from the cutting means, said means (21) for separating the content at least from the package comprising means (13) for ripping the package open, one or more transporting means and a rotating drum (21) provided with openings through which the content separated from the package is allowed to leave the drum (18). Further, the sack cutting screw (11) is separated from the drum (18) and that below both the sack cutting screw (11) and the drum (17), a means (20) for collecting and transporting away the content of the sacks is arranged, said means being configured in such way that the content of the package is removed at one end, while the waste package is removed at the other end of said sack cutting means (10).

WO 2009/075584 A1