



(43) International Publication Date
10 October 2013 (10.10.2013)

(51) International Patent Classification:
B01D 29/82 (2006.01)

(21) International Application Number:
PCT/CA2013/050279

(22) International Filing Date:
5 April 2013 (05.04.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/620,772 5 April 2012 (05.04.2012) US

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(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).

Published:

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

(54) Title: TWIN SCREW EXTRUDER PRESS FOR SOLID/FLUID SEPARATION

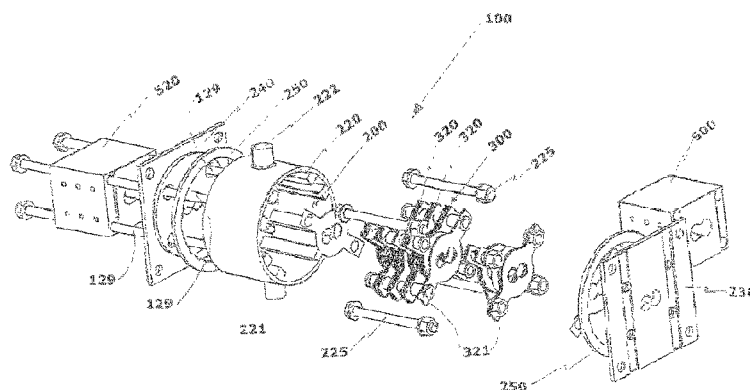


FIG 5a

(57) Abstract: Disclosed is a solid/liquid separation apparatus including an extruder press combined with a solid/fluid separation module for separating fluid from a mass of solids compressed by the extruder at elevated pressures. The extruder includes two or more extruder screws with flighting intercalated at least along a part of the extruder barrel. The separation module forms a continuation of the barrel, receives the pressurized mass and at least a portion of the twin screws, and includes a filter pack consisting of a filter plate and a backer plate. The filter plate has a throughgoing filter slot extending away from a core opening and into the filter plate for directing fluid away from the core opening. The backer plate has a core opening shaped and sized equal to the barrel and defines a passage for guiding fluid collected in the filter slot to an exterior of the filter pack.

