



(51) International Patent Classification:

B65H 5/22 (2006.01) **H01M 8/02** (2006.01)
B65H 29/24 (2006.01)

(21) International Application Number:

PCT/GB2010/002349

(22) International Filing Date:

31 December 2010 (31.12.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1000651.8 15 January 2010 (15.01.2010) GB

(71) Applicant (for all designated States except US): **INTELLIGENT ENERGY LIMITED** [GB/GB]; Charnwood Building, Holywell Park, Ashby Road, Loughborough, Leicestershire LE11 3GR (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HOOD, Peter, David** [GB/GB]; Intelligent Energy Limited, Charnwood Building, Holywell Park, Ashby Road, Loughborough, Leicestershire LE11 3GR (GB).

(74) Agent: **PEARCE, David**; Potter Clarkson LLP, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

(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, LK, 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, RO, RS, RU, 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, 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: TRANSFER MECHANISM

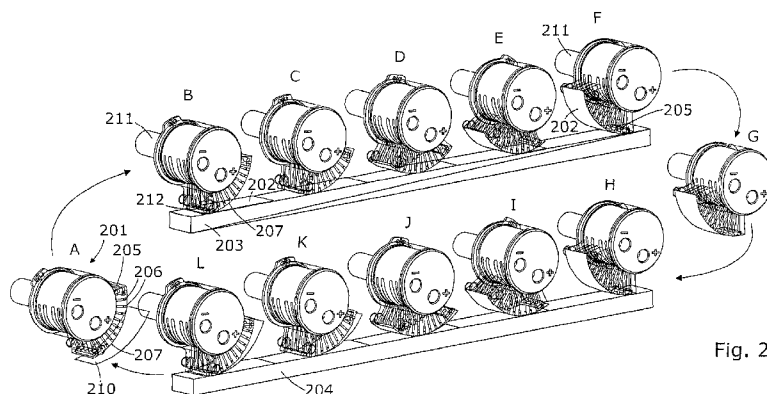


Fig. 2

(57) Abstract: A mechanism for transferring a flexible sheet material (202) from a first substrate (203) to a second substrate (204), the mechanism having a head rotatable and translatable relative to the first and second substrates, the head (201) comprising a cylindrical curved portion (205) having an outer face (207) across which are provided openings (206) configured to apply air pressure to sheet material (202) contacting the outer surface (207) such that the head (201) is adapted to transfer the sheet material (202) from the first substrate (203) to the second substrate (204) by a combination of rotation and translation of the head (201).