



(51) International Patent Classification:

C09J 7/00 (2006.01) **C09J 7/02** (2006.01)
C09J 4/00 (2006.01) **H01L 21/58** (2006.01)
C09J 175/00 (2006.01)

(21) International Application Number:

PCT/US2011/048821

(22) International Filing Date:

23 August 2011 (23.08.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/377,212 26 August 2010 (26.08.2010) US

(71) Applicant (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DUDLEY, William R.** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **SHERMAN, Audrey A.** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US). **TAPIO, Scott M.** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(74) Agents: **OLOFSON, Jeffrey M.** et al.; 3M Center, Office of Intellectual Property Counsel, 3M Center, Saint Paul, Minnesota 55133-3427 (US).

(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, QA, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: DOUBLE-SIDED MULTI-LAYER ADHESIVE

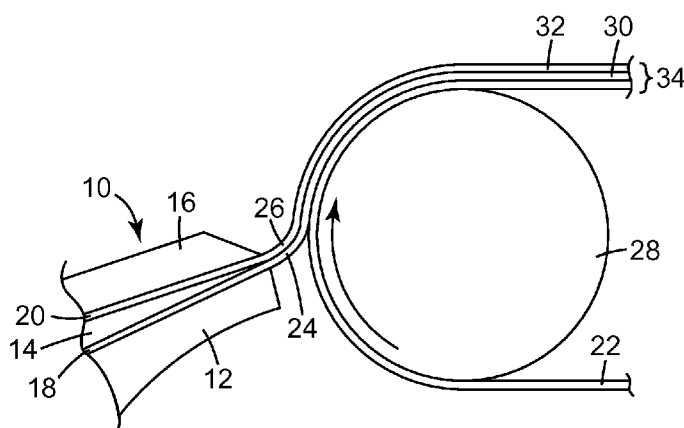


Figure 1

(57) Abstract: Methods for preparing double-sided multi-layer adhesives, double-sided multi-layer adhesives and articles prepared with double-sided multi-layer adhesives are disclosed. The methods for preparing double-sided multi-layer adhesives include providing a first fluid, the first fluid including a polymeric adhesive composition solution or dispersion, providing a second fluid, the second fluid including a curable composition, coating the first fluid and the second fluid onto a substrate, and curing the curable composition to form a double-sided multi-layer adhesive. The coating of the first fluid and the second fluid onto a substrate may include simultaneous slot die coating of the two fluids or sequential coating of the two fluids. The curable composition layer is cured to form a multi-layer adhesive article. The formed multi-layer adhesive article may be a transfer tape.



-
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- Published:**
- *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*