

(43) International Publication Date
29 August 2013 (29.08.2013)

- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/EP2013/053467
- (22) International Filing Date: 21 February 2013 (21.02.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 12156979.2 24 February 2012 (24.02.2012) EP
- (71) Applicant: PHILIP MORRIS PRODUCTS S.A. [CH/CH]; Quai Jeanrenaud 3, CH-2000 Neuchâtel (CH).
- (72) Inventor: MANCINI, Roberto; Route d'Arnex 2, CH-1353 Bofflens (CH).
- (74) Agent: MILLBURN, Julie; Reddie & Grose LLP, 16 Theobalds Road, London Greater London WC1X 8PL (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, 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:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: METHOD OF MAKING A MULTILAYER ARTICLE

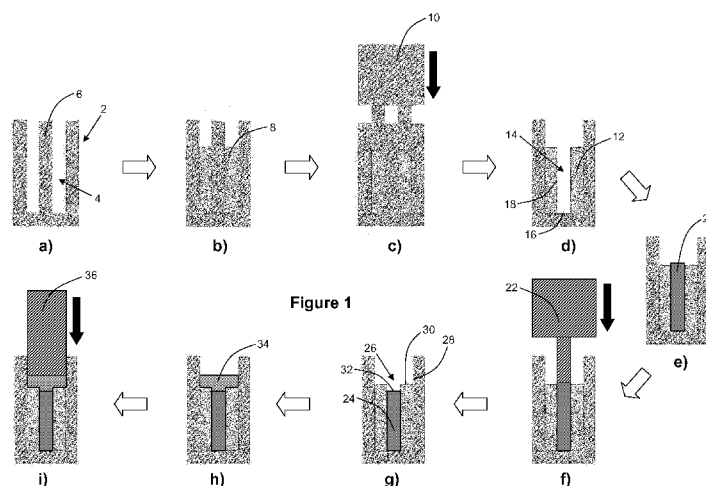


Figure 1

(57) Abstract: A method of making a multilayer article comprises: providing a mould (2) defining a first mould cavity (4), wherein the mould (2) comprises a removable element (6) within the first mould cavity (4); placing a first particulate component (8) in the first mould cavity (4); compressing the first particulate component (8) along a first axis in a first compression step to form a first layer (12) of the multilayer article by applying a first compression force to the first particulate component; removing the removable element (6) from the first mould cavity (4) after formation of the first layer (12); placing one or more additional particulate components (20, 32) in the mould (2), wherein a portion of the one or more additional particulate components occupies a space formerly occupied by the removable element (6); compressing the one or more additional particulate components (20, 32) along the first axis in one or more additional compression steps after removal of the removable element (6) to form one or more additional layers (24, 38) of the multilayer article, wherein the first layer (12) meets one of the one or more additional layers (24, 38) along a first interface substantially parallel to the first axis and the first layer (12) meets one of the one or more additional layers (24, 38) along a second interface substantially perpendicular to the first axis; and removing the multilayer article from the mould (2). The one or more additional compression steps comprise applying a compression force greater to the one or more additional particulate components (20, 32) prior to removing the multilayer article from the mould (2) that is greater than the first compression force applied to the first particulate component (8) to form the first layer (12).