



- (51) International Patent Classification:
E04D 1/08 (2006.01) *E04F 13/18* (2006.01)
- (21) International Application Number:
PCT/US2012/060834
- (22) International Filing Date:
18 October 2012 (18.10.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/200,544 23 September 2011 (23.09.2011) US
- (72) Inventors; and
- (71) Applicants : **THOMSON, Donald W.** [CA/CA]; 174 North Railway Street, Apt. 303, Okotoks, Alberta T1S 0E2 (CA). **SMITH, Randell N.** [US/US]; 0173 Mel Rey Road, Glenwood Springs, Colorado 81601 (US). **OLP, SR., Jerald W.** [US/US]; 301 Mel Rey Road, Glenwood Springs, Colorado 81601 (US).
- (74) Agent: **MILLER, Richard L.**; 12 Parkside Dr., Dix Hills, New York 11746-4879 (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, 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).

[Continued on next page]

(54) Title: ENVIRONMENT FRIENDLY BUILDING SYSTEM UTILIZING RECYCLED/UPCYCLED, COLLAPSED, PREFORMED & POST CONSUMER PLASTIC MATERIAL

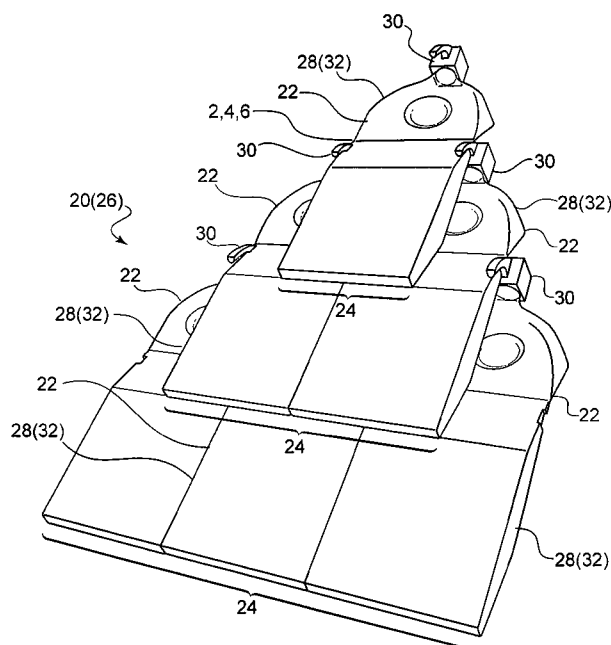


FIG. 1

(57) Abstract: An environmentally friendly building system (20) for promoting long term carbon capture and sequestration of roofing and siding by utilizing recycled/upcycled, collapsed, preformed, and post consumer plastic material (32). The system includes a plurality of tiles (22). The plurality of tiles (22) interlock with each other to form overlapping courses of laterally staggered roofing or siding (24). Each tile (22) includes a bottle (28) and a cap connector (30). The cap connector (30) of each tile (22) caps off the bottle (28) of an associated tile, and hooks into the bottle (28) of a tile laying on top thereof so as to hold the overlapping courses of the laterally staggered roofing or siding in place (24). The bottle (28) of each tile (22) is made from recycled/upcycled, collapsed, preformed, and post consumer plastic material (32) for promoting the long term carbon capture and sequestration of the laterally staggered roofing or siding so as to be environmentally friendly.

**Published:**

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- the filing date of the international application is within two months from the date of expiration of the priority period (Rule 26bis.3)