

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 June 2006 (01.06.2006)

PCT

(10) International Publication Number
WO 2006/057657 A2

- (51) International Patent Classification: **Not classified**
- (21) International Application Number:
PCT/US2005/011448
- (22) International Filing Date: 4 April 2005 (04.04.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/818,124 5 April 2004 (05.04.2004) US
- (71) Applicant (*for all designated States except US*):
SONOCO DEVELOPMENT, INC. [US/US]; North
Second Street, Hartsville, SC 29550 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **BELLUM, Cliff**
[US/US]; 307 Warner Drive, Hartsville, SC 29550 (US).
LOWRY, James [US/US]; 405 Treeshore Lane, Franklin,
TN 31069 (US).
- (74) Agents: **HILL, Donald, M., Jr.** et al.; Alston & Bird
LLP, Bank of America Plaza, 101 South Tryon Street, Suite
4000, Charlotte, NC 28280-4000 (US).
- (81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, 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*
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: REMOVABLE IDENTIFICATION DEVICE FOR MULTILAYER TUBULAR STRUCTURES

(57) Abstract: A multilayer tubular structure for products with an identification device is disclosed. In one embodiment, a resiliently flexible band is biased with respect to the tubular structure, and the identification device, such as a radio frequency identification device, is interposed therebetween.



WO 2006/057657 A2