

REVISED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/016553 A1

(51) International Patent Classification⁷: **B05B 13/06**,
B05C 5/00, 7/00, 11/00, 11/02

(21) International Application Number:
PCT/US2004/005587

(22) International Filing Date: 24 February 2004 (24.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/629,477 28 July 2003 (28.07.2003) US

(71) Applicant (for all designated States except US): **CUS-
TOM MACHINING CORPORATION** [US/US]; 3878
S. Jason Street, Englewood, CO 80110 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ROSS, Allan** [US/US];
3878 S. Jason Street, Englewood CO 80110 (US).

(74) Agent: **CRABTREE, Edwin, H.**; Suite 575, 3773 Cherry
Creek N. Drive, Denver, CO 80209 (US).

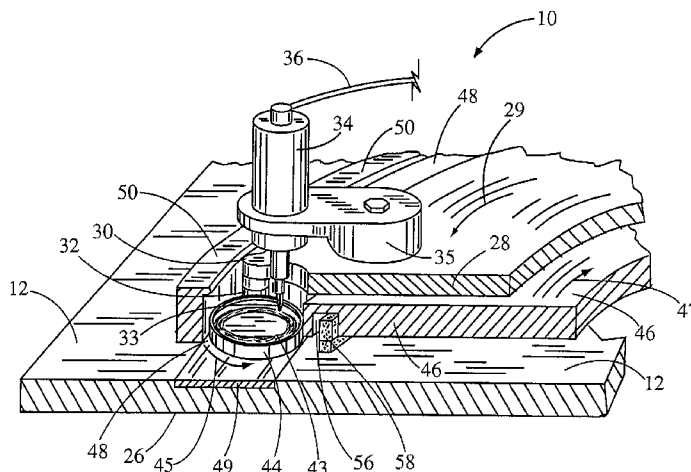
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, 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, 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, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: MAGNETIC SEALANT LINER APPLICATION FOR APPLYING SEALANT TO VARIOUS SIZES OF METAL LIDS



(57) **Abstract:** A magnetic sealant liner applicator (10) used for applying sealant (43) to a plurality of metal lids (44). The applicator receives metal lids (44) from an infeed conveyor (60) and discharging the metal lids (44) with sealant (43) thereon to a discharge conveyor (64). The applicator includes a motor-driven starwheel (28) is mounted on top of a tabletop (12) and driven in one direction. The starwheel (28) has a plurality of cam followers (30) spaced apart and extending outwardly from its circumference. The cam followers (30) include cam follower bearings (32) adapted for receiving a portion of individual metal lids (44) thereagainst. A plurality of sealant guns (34) are mounted on the starwheel (28) and are under computer (38) control and disposed next to the cam followers (30). The sealant guns (34) apply the sealant (43) inside the metal lids (44). A motor-driven magnetic wheel (46) is mounted on top of the tabletop (12), disposed under the starwheel (28) and is driven in an opposite direction from the starwheel (28). A circumference of the magnetic wheel (46) is adapted for engaging a portion of the metal lids (44) as the metal lids (44) are spun on top of the tabletop (12).

WO 2005/016553 A1



(88) Date of publication of the revised international search report:

28 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(15) Information about Correction:

see PCT Gazette No. 30/2005 of 28 July 2005, Section II