



- (51) **International Patent Classification:**
B24B 27/02 (2006.01)
- (21) **International Application Number:**
PCT/US2013/072945
- (22) **International Filing Date:**
4 December 2013 (04.12.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
224111 2 January 2013 (02.01.2013) IL
- (71) **Applicant:** MUL-T-LOCK TECHNOLOGIES LTD.
[IL/IL]; PO Box 637, 81104 Yavne (IL).
- (71) **Applicant (for MG only):** KLEIN, David [US/IL]; 18
Menuha VeNahala Street, 76209 Rehovot (IL).
- (72) **Inventors:** BEN-AHARON, Effi; 10 Yitzhak Ben-Zvi
Street, 4537305 Hod HaSharon (IL). KAISER, Izhak; 51
Zeev Baraz Street, 4973770 Petach Tikva (IL). FREN-
KEL, Zvi; 17 Shraga Refaeli Street, 4906439 Petach Tikva
(IL).
- (74) **Agent:** KLEIN, David; 18 Menuha VeNahala Street,
76209 Rehovot (IL).

(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, IR, IS, JP, KE, KG, 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, SA, 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.

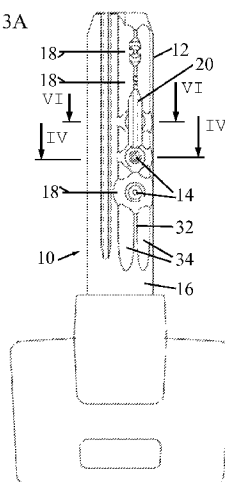
(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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, KM, 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:** ELIMINATING MAXIMUM ADJACENT CUT SPECIFICATION RESTRICTIONS FOR TELESOPING PINS

FIG. 3A



(57) **Abstract:** A key device (10) includes a generally elongate shaft portion (12) including a key combination surface (16) that has a plurality of key cut stations (18) for forming telescoping key cuts at each key cut station (18). Each key cut station (18) has a telescoping maximum adjacent cut specification (MACS) that defines a maximum depth of adjacent. The key device (10) also has a non-MACS key cut (20), formed at one or more of the key cut stations (18), for interfacing with a first pin (24) of a given telescoping plug pin. The non-MACS key cut (20) is dimensioned to leave material in the elongate shaft portion (12) for forming another key cut (20A) for interfacing with a second pin (26) of the given telescoping plug pin.

