

20/11/03
2003069382

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



162162

(43) International Publication Date
12 December 2002 (12.12.2002)

PCT

(10) International Publication Number
WO 02/099157 A1

(51) International Patent Classification⁷: C23C 14/34,
B23K 28/00, 33/00

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(21) International Application Number: PCT/US02/14302

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(22) International Filing Date: 8 May 2002 (08.05.2002)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/870,164 30 May 2001 (30.05.2001) US

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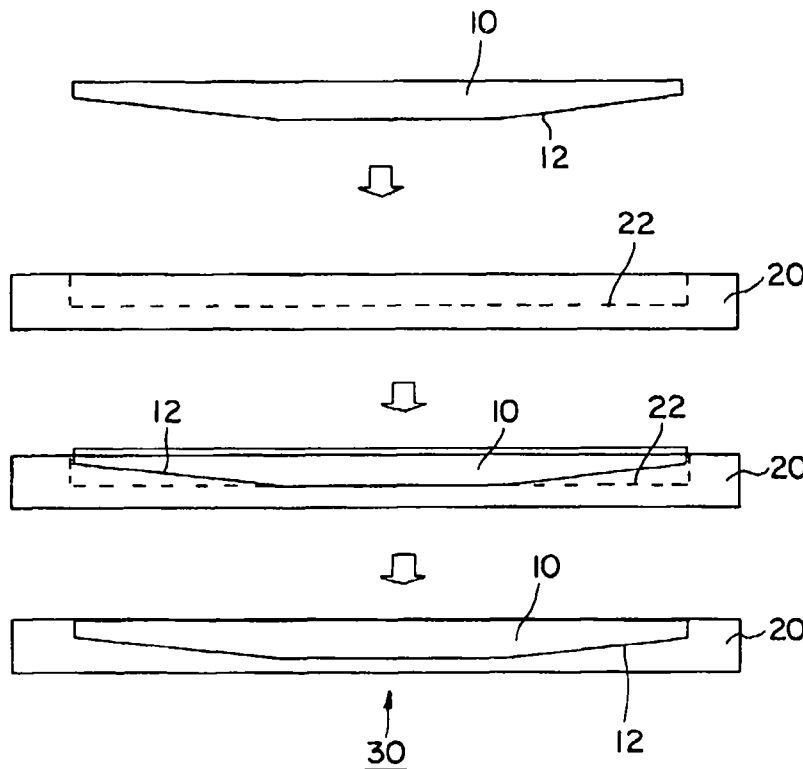
(84) Designated States (*regional*): Eurasian patent (AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:
— with international search report

[Continued on next page]

(54) Title: RECESSED SPUTTER TARGET



(57) Abstract: The method manufactures sputter target assemblies (30). It first includes the step of manufacturing a target insert (10). The target insert (10) has a yield strength, a diameter, a height, a planar top surface and a conical-shaped rear surface (12). Then a backing plate (20) is manufactured. The backing plate (20) has a cylindrical recess (22) that corresponds to the diameter of the target insert (10). The cylindrical recess (22) has a depth less than the height of the target insert (10) and a yield strength less than the yield strength of the target insert (10). Finally, pressing the target insert (10) into the cylindrical recess (22) to the backing plate (20) bonds the target insert (10) of the backing plate (20) to form a target assembly (30). The pressed target assembly (30) contains the target insert (10) with the conical-shaped rear surface (12).

WO 02/099157 A1



ACTION

WO 02/099157 A1

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