

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 February 2002 (28.02.2002)

PCT

(10) International Publication Number
WO 2002/016666 A3

(51) International Patent Classification⁷: **C23C 14/34**,
B22D 19/14

(21) International Application Number:
PCT/US2001/025856

(22) International Filing Date: 17 August 2001 (17.08.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/226,214 18 August 2000 (18.08.2000) US
09/774,286 30 January 2001 (30.01.2001) US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 09/774,186 (CIP)
Filed on 30 January 2001 (30.01.2001)

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(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, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), 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).

Declarations under Rule 4.17:

- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

Published:

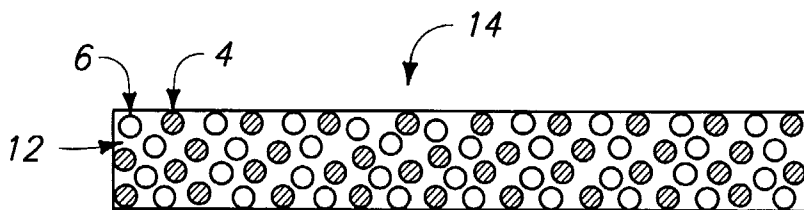
- with international search report
- with amended claims

(88) Date of publication of the international search report:
4 September 2003

Date of publication of the amended claims: 15 April 2004

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.

(54) Title: SPUTTERING TARGETS



(57) Abstract: A method includes combining a solid first material and a solid second material and melting at least a portion of the first material sufficient to coat the second material and any remaining first material. An approximately homogenous distribution of the second material can be formed throughout the liquid phase of the

first material. The first material liquid phase can then be solidified to define a composite target blank exhibiting an approximately homogenous distribution of the solid second material in a matrix of the solidified first material. The first material can comprise SE and the second material can comprise Ge and/or Ag. The composite target blank can include at least about 50 vol % matrix. The first and second materials can be powdered metals. Accordingly, a physical vapor deposition target can include a matrix of a first material and an approximately homogenous distribution of particles of a second material throughout the first material matrix. The second material can include powders exhibiting particles sizes no greater than about 325 mesh.