

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 March 2003 (27.03.2003)

PCT

(10) International Publication Number
WO 03/025259 A1

(51) International Patent Classification⁷: **C25D 17/12**

(21) International Application Number: PCT/US01/29172

(22) International Filing Date:
19 September 2001 (19.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **HONEYWELL INTERNATIONAL, INC.** [US/US]; Patent Department, 101 Columbia Road, Morristown, NJ 07962 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WHITE, Tamara** [US/US]; 8611 North Greenwood, Spokane, WA 99208 (US).

(74) Agent: **ROBERTS, Richard, S.**; Roberts & Mercanti, LLP, P.O. Box 484, Princeton, NJ 08542-0484 (US).

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

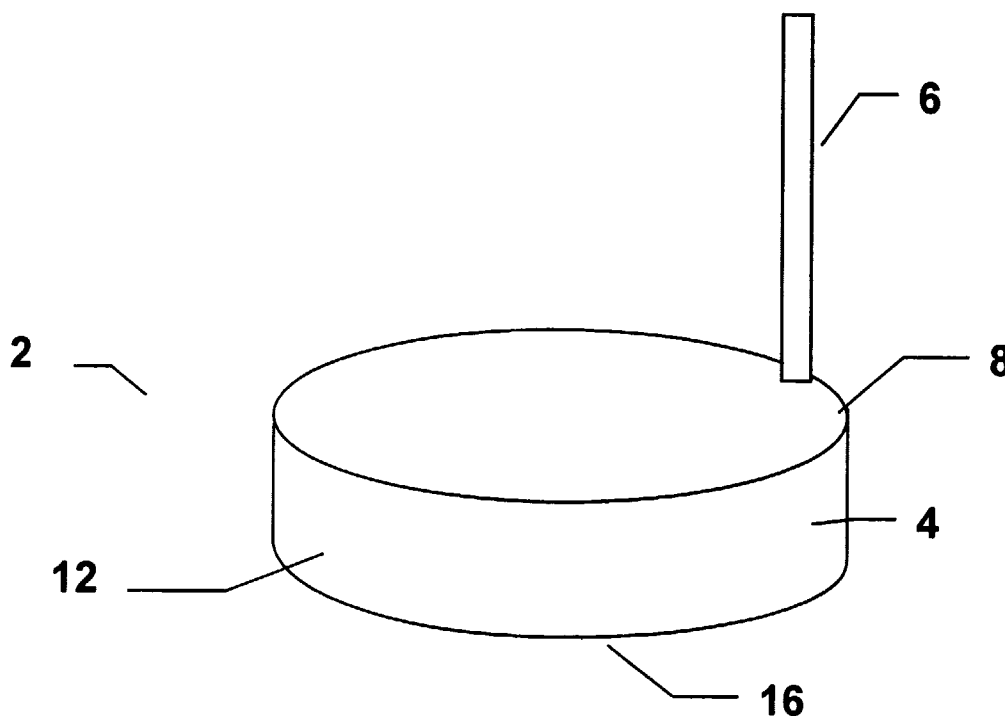
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,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

Published:

— with international search report

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: ELECTRODE ATTACHMENT TO ANODE ASSEMBLY



(57) Abstract: The invention relates to electroplating. In particular, the invention relates to an improved anode for electroplating metals onto substrates, and to a method of electroplating metals onto substrates utilizing the anode. The anode has a solid metal portion, and a metal electrode shaft having one or more barbs projecting outwardly from a periphery of the shaft at one end of the shaft. The barbs are fixed through the body of the anode and extend a distance therethrough.



WO 03/025259 A1