

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number
WO 2004/067806 A1

(51) International Patent Classification⁷: **C25D 1/08**,
5/18, 5/02

5 Riverside Court, Livingston Village, West Lothian EH54
7BY (GB).

(21) International Application Number:
PCT/GB2004/000318

(74) Agents: **MACDOUGALL, Donald, Carmichael** et al.;
Cruikshank & Fairweather, 19 Royal Exchange Square,
Glasgow G1 3AE (GB).

(22) International Filing Date: 27 January 2004 (27.01.2004)

(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.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0302222.5 31 January 2003 (31.01.2003) GB

(71) Applicant (for all designated States except US): **HERIOT-
WATT UNIVERSITY** [GB/GB]; Riccarton Campus, Ed-
inburgh EH14 4AS (GB).

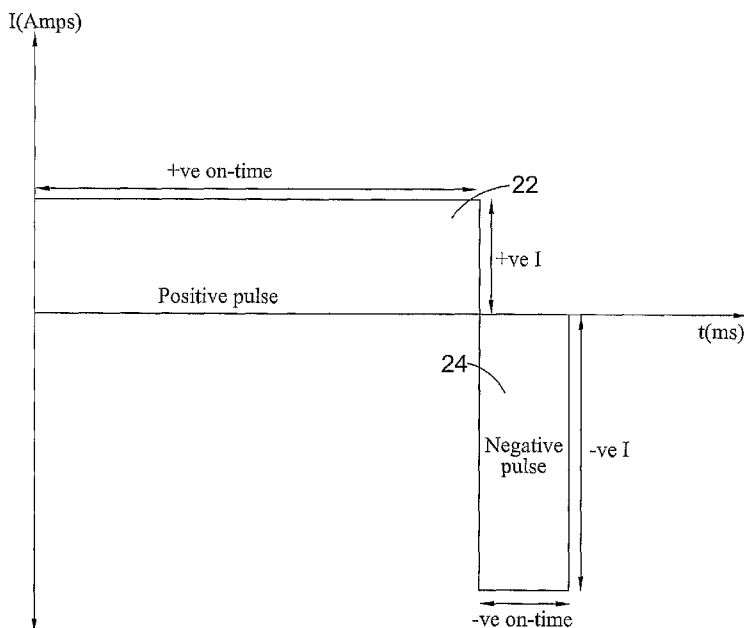
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DESMULLIEZ,
Marc, P., Y.** [FR/GB]; 20 Lee Crescent, Portobello,
Edinburg EH15 1LW (GB). **KAY, Robert, W.** [GB/GB];

[Continued on next page]

(54) Title: STENCIL MANUFACTURE



(57) Abstract: A method of forming a screen-printing stencil comprising electroforming the stencil using a bi-polar electrical signal. The bi-polar signal comprises a cathodic pulse (22) and an anodic pulse (24). When the cathodic pulse (22) is applied during the electroforming process, metal is deposited. When the anodic pulse (24) is applied, metal is removed. The cathodic pulse (22) has a longer duration than the anodic pulse (24). The ratio of the magnitude of the anodic pulse (24) to the magnitude of the cathodic pulse (22) is greater than one.

WO 2004/067806 A1



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*