

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number
WO 2004/073361 A2

(51) International Patent Classification⁷: **H05F**
(21) International Application Number:
PCT/US2004/004438
(22) International Filing Date: 11 February 2004 (11.02.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
10/364,164 11 February 2003 (11.02.2003) US
10/447,447 29 May 2003 (29.05.2003) US

(71) Applicant (for all designated States except US): **TASER INTERNATIONAL, INC.** [US/US]; 7860 East McClain Dr., Suite 2, Scottsdale, AZ 85260-1627 (US).

(72) Inventor: **NERHEIM, Magne, H.**; 7033 E. Joan De Arc, Scottsdale, AZ 85254.

(74) Agents: **ROGERS, David, E.** et al.; Squire, Sanders & Dempsey L.L.P., Two Renaissance Square, 40 North Central Avenue, Suite 2700, Phoenix, AZ 85004-4498 (US).

(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.

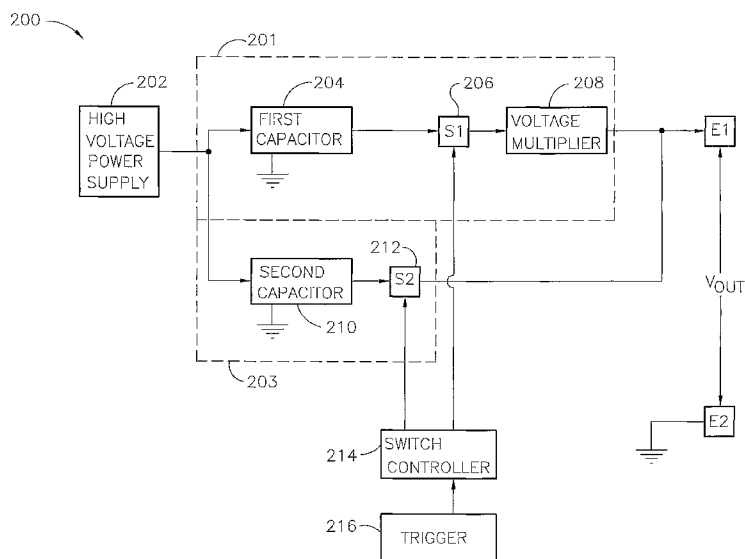
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that 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: ELECTRONIC DISABLING DEVICE



(57) Abstract: An electronic disabling device includes first and second electrodes for contact with a target animal or person. The device disables the target by providing a current through the electrodes and consequently through the target. To assure suitable current flow, the device imposes across the electrodes a relatively high voltage for a relatively short time to ionize an air gap that may exist due to electrode placement. After lapse of the relatively short time the device applies a relatively low voltage to sustain an disabling current flow through the electrodes, the ionized air of the gap, and the target. Use of the lower voltage conserves battery power of the device and permits longer duration disabling with less risk of injury to the target.

WO 2004/073361 A2