

(19) World Intellectual Property Organization
International Bureau



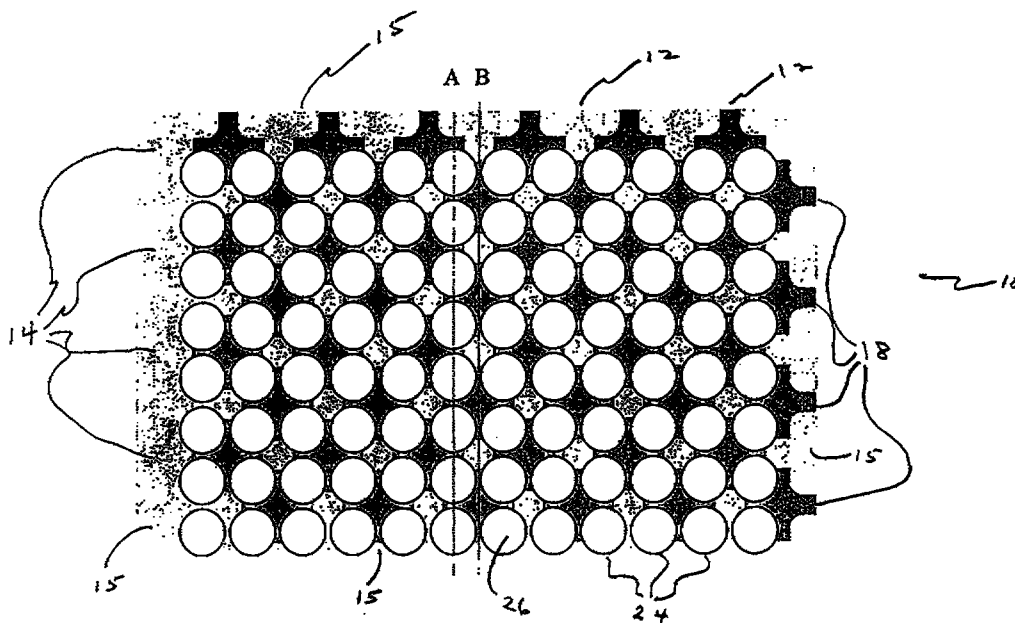
(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/10667 A2

- (51) International Patent Classification⁷: **F41H 5/04**
- (21) International Application Number: **PCT/US01/21541**
- (22) International Filing Date: **6 July 2001 (06.07.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
09/610,748 **6 July 2000 (06.07.2000)** **US**
- (71) Applicant (for all designated States except US): **HIGHER DIMENSION MEDICAL, INC.** [US/US]; 570 Hale Avenue, Oakdale, MN 55128 (US).
- (74) Agents: **MALCOLM, D., Reid et al.**; Gray, Plant, Mooty, Mooty & Bennett, P.A., P.O. Box 2906, Minneapolis, MN 55402-0906 (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, GW, ML, MR, NE, SN, TD, TG).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **YOUNG-HWA, Kim, Ph., D.** [US/US]; 353 Lindsay Road, Hudson, WI 54016 (US). **HONG, Ji** [US/US]; 9613 Hillingdon Road, Woodbury, MN 55125 (US). **RENNEBERG, Nicole, Dawn** [US/US]; 2434 E. 14th Avenue, #2, North St. Paul, MN 55109 (US). **SEONG-GI, Baek, Ph., D.** [KR/US]; 1293 Kenilworth Drive, Woodbury, MN 55125 (US).
- 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: **SUPPLE PENETRATION RESISTANT FABRIC AND METHOD OF MAKING**



(57) Abstract: A puncture, pierce, and cut resistant fabric comprised of a plurality of sheets of plates arranged in a repeating pattern. A material interconnects the plates. The fabric is twistable, bendable, and flexible. It is constructed of substances that will withstand cutting, puncture, and piercing forces encountered in medical or other environments.

WO 02/10667 A2