



- (51) **International Patent Classification:**
A62B 35/04 (2006.01) *F16F 7/00* (2006.01)
- (21) **International Application Number:**
PCT/US2013/036759
- (22) **International Filing Date:**
16 April 2013 (16.04.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/463,986 4 May 2012 (04.05.2012) US
- (71) **Applicant:** D B INDUSTRIES, LLC [US/US]; 3833 Sala Way, Red Wing, MN 55066-5005 (US).
- (72) **Inventor:** PERNER, Judd, J.; 1342 Red Oak Avenue, Red Wing, MN 55066 (US).
- (74) **Agent:** SANNES, Robin, A.; IPLM Group P.A., Post Office Box 18455, Minneapolis, MN 55418 (US).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,

BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

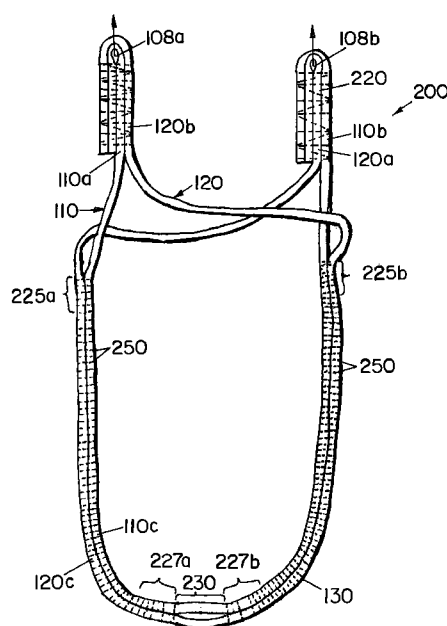
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

- (54) **Title:** ENERGY ABSORBER

FIG. 3A

(57) **Abstract:** An energy absorber is provided that includes first and second strips of webbing, a plurality of tear yarns and first and second connection portions. The plurality of tear yarns couple a central section of the first strip of webbing to a central section of the second strip of webbing to form a mid portion of the first and second strips of webbing. The mid portion of the first and second strips of webbing has a centrally located unattached portion without tear yarns. The first connector portion couples a first webbing first end portion of the first strip of webbing and a second webbing second end portion of the second strip of webbing to a first connector. The second connector portion couples a first webbing second end portion of the first strip of webbing and a second webbing first end portion of the second strip of webbing to a second connector.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Published:

- *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

19 June 2014