



(51) International Patent Classification:
B02C 13/00 (2006.01)

(21) International Application Number:
PCT/US2010/025508

(22) International Filing Date:
26 February 2010 (26.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/155,852 26 February 2009 (26.02.2009) US

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(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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, LS, MW, MZ, NA, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: SHREDDER HAMMERS INCLUDING IMPROVED ENGAGEMENT BETWEEN THE HAMMER PIN AND THE HAMMER

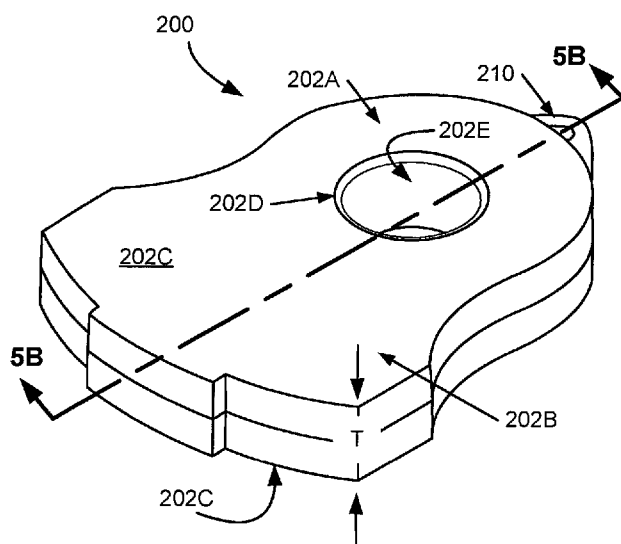


FIG. 5A

(57) Abstract: Shredder hammers include a hammer pin opening in which at least some portion of the interior surface is curved in a direction moving from one major surface of the shredder hammer to the other. This interior surface may be smoothly formed as an arc of a circle, as a parabola, as a hyperbola, or as another curved surface, with the local extrema within the interior of the hole (e.g., at or near the center). Providing the curved interior surface helps vary and disperse the locations where force is absorbed due to contact between the hammer pin and the walls defining the hammer pin opening when the shredding hammer blade contacts the material to be shredded. Other structures include engagement between the hammer pin and the hammer as part of a bushing member, a spool or sleeve member, or a ball swivel member.



Published:

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