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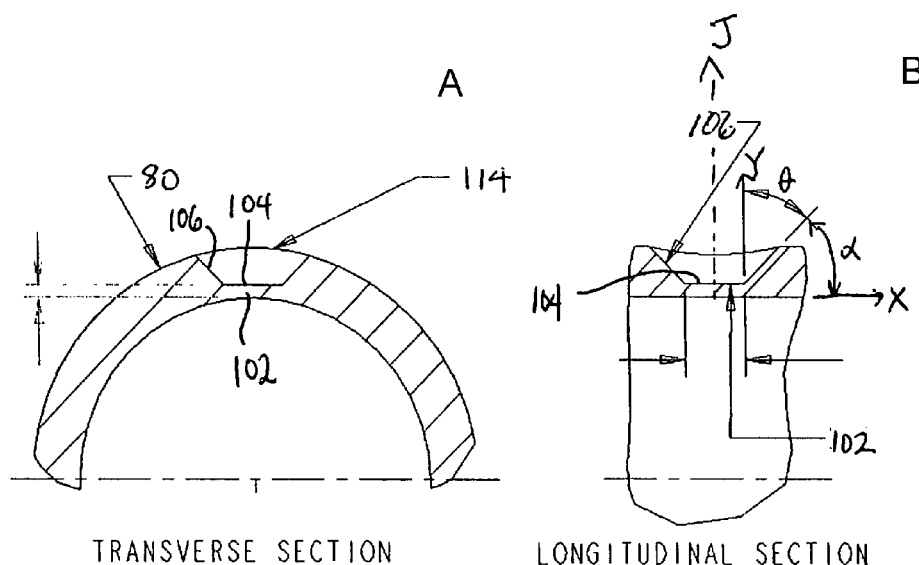
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(54) Title: SHAPED RECESSES IN EXPLOSIVE CARRIER HOUSINGS THAT PROVIDE FOR IMPROVED EXPLOSIVE PERFORMANCE BACKGROUND



(57) Abstract: A carrier for containing explosives (e.g., shaped charges) includes a housing having a plurality of recesses, each recess having a periphery and a side surface extending around the periphery. The side surface is shaped to a geometry to reduce or control reflection of compression waves generated in response to an explosive jet (e.g., a perforating jet) created due to detonation of an explosive. The side surface may be slanted from a bottom surface of the recess, or a predetermined profile may be formed in the side surface to scatter or direct compression waves. One or more shock absorbing inserts may also be placed in recesses formed by the inserts, or the recesses may be capped to trap air so that compression waves generated in the recesses are significantly reduced as compared to compression waves generated in well fluids.