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(54) **DEFORMABLE RELEASE DEVICE FOR USE WITH DOWNHOLE TOOLS**

Publication Classification

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(57) **ABSTRACT**

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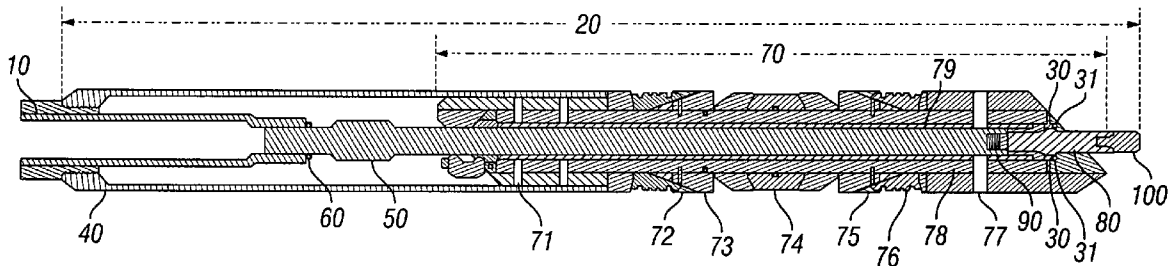
A deformable release device is disclosed to be used with downhole setting tools. The deformable release device may provide a releasable detachment to any customary setting tool, such as electric line, hydraulic, hydrostatic, and mechanical setting tools, used to set a downhole packer-type device. The deformable release device allows for the automatic release of downhole setting tools at the application a predetermined force, similar to a shear pin or shear stud. However, since the deformable release device deforms rather than shears or breaks, the releasing device minimizes the debris or remnants of the device left in the wellbore.

(21) Appl. No.: **11/644,443**

(22) Filed: **Dec. 22, 2006**

Related U.S. Application Data

(60) Provisional application No. 60/755,358, filed on Dec. 30, 2005.



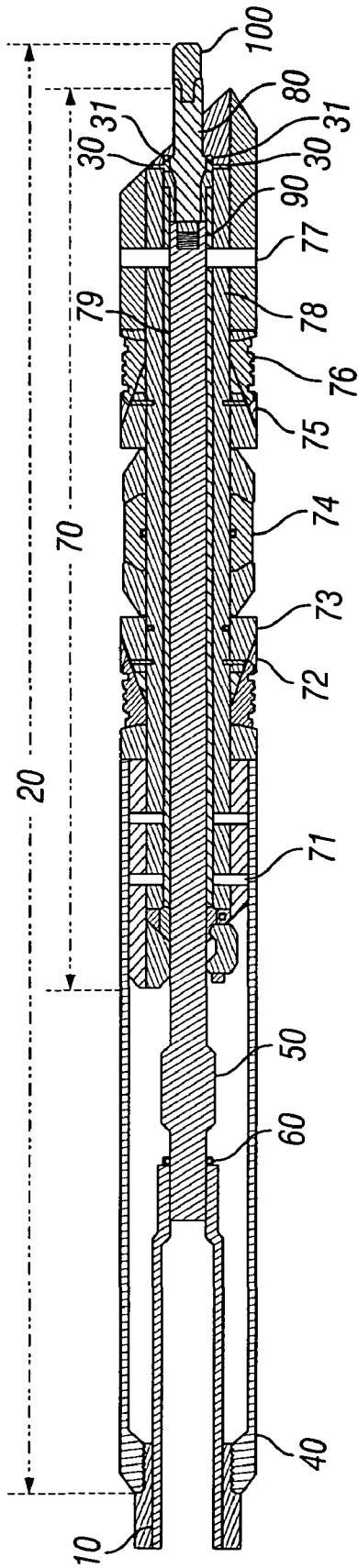


FIG. 1

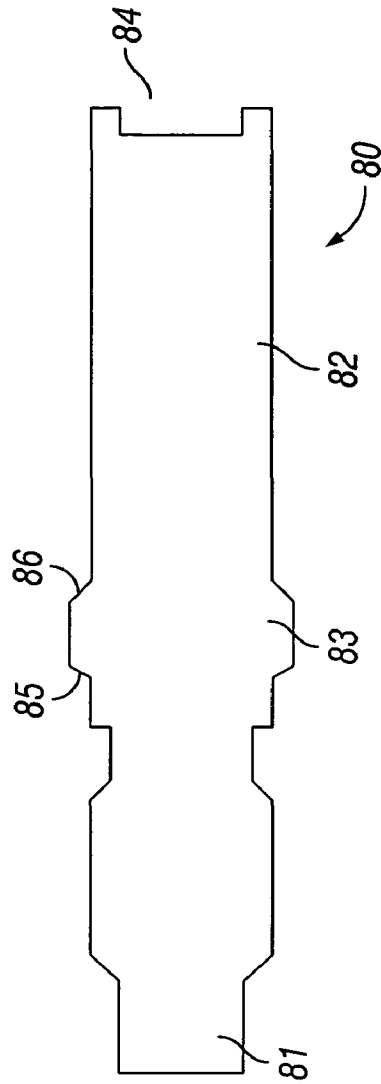


FIG. 2

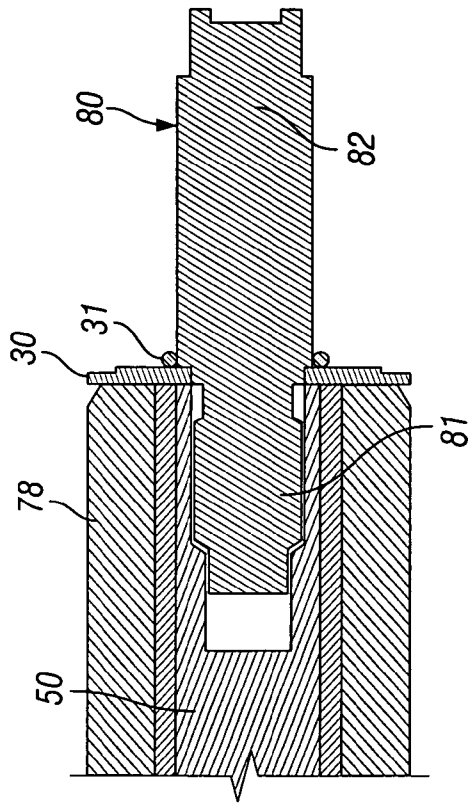


FIG. 3A

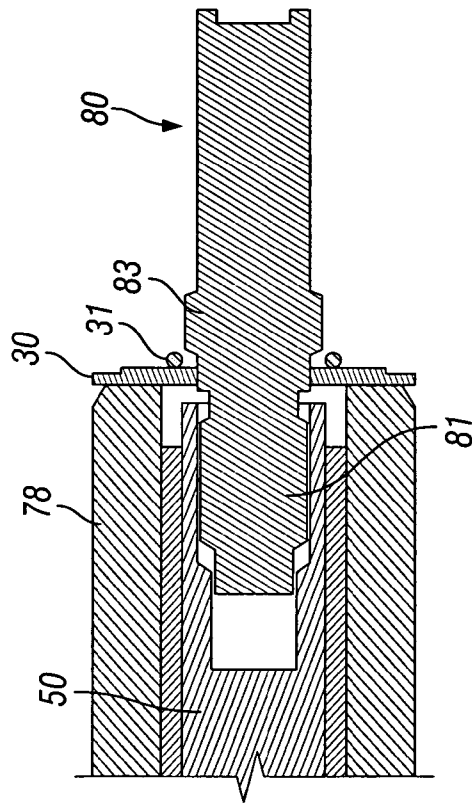


FIG. 3B

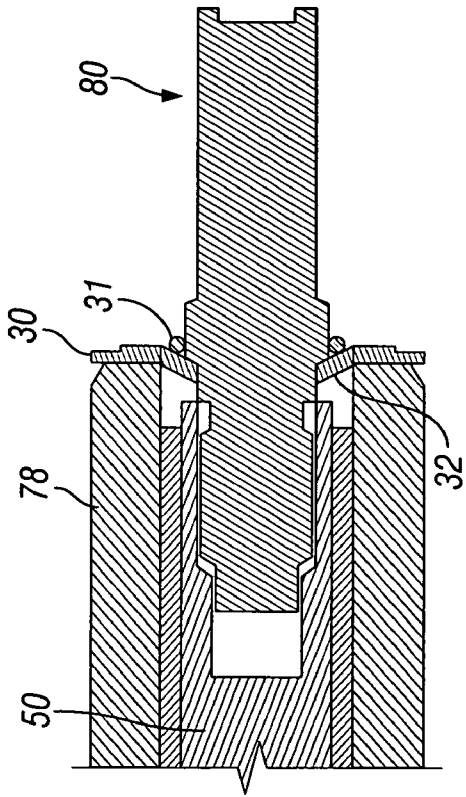


FIG. 3C

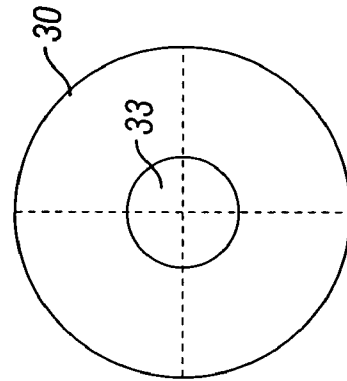


FIG. 5

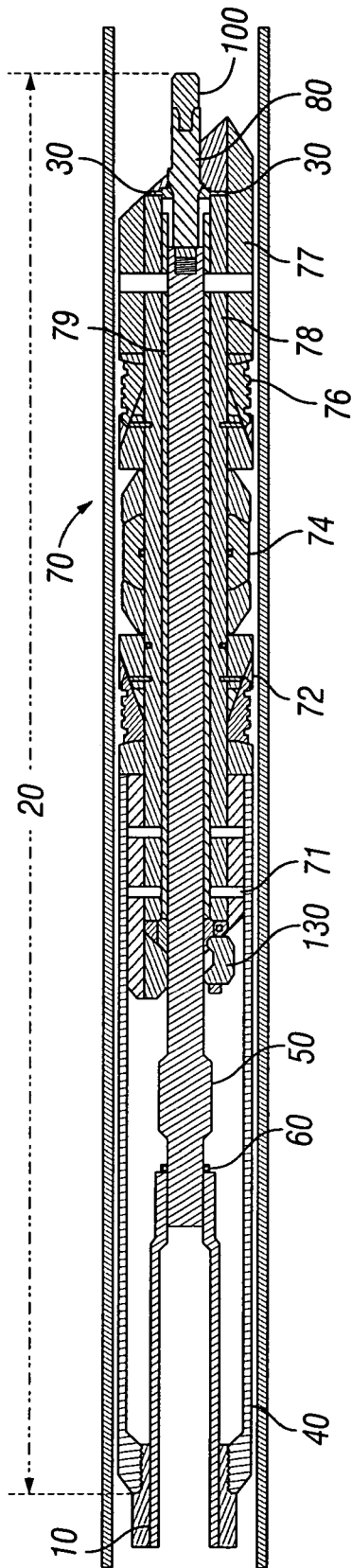


FIG. 4A

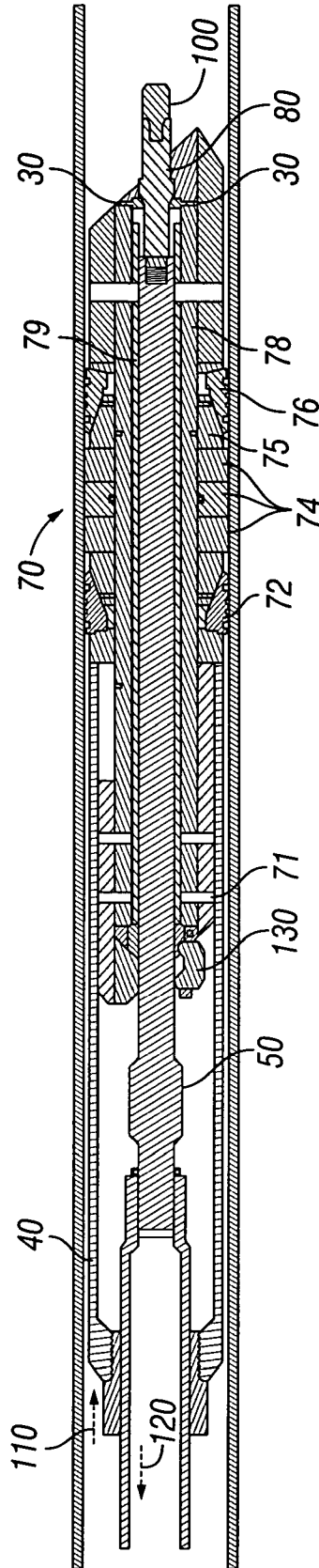


FIG. 4B

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