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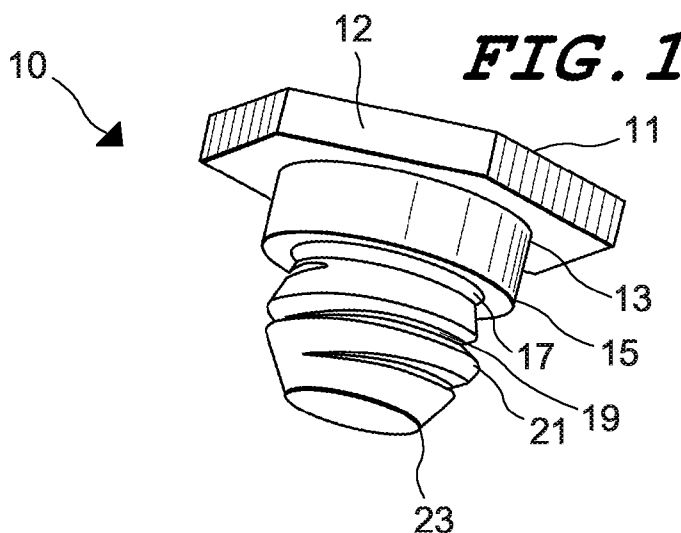
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(54) Title: TACK SCREW



(57) Abstract: The present clinch screw can be secured through a hole in a sheet of metal by a simple press-in application like a tack pin. An undercut clinch feature on the screw shank just underneath the head and above a threaded bulb portion of the shank secures the screw to the sheet as material from the sheet cold-flows into the undercut. Simultaneously, sheet material also flows around and between the bulb threads which forms partial female threads in the sidewall of the sheet hole and provides added pull-out resistance. The screw can then be simply turned out to remove it. In doing so additional female threads are cut into the upper portion of the hole sidewall as the threaded bulb moves upward and then out of the hole. A re-useable threaded hole in the sheet is left behind.

