

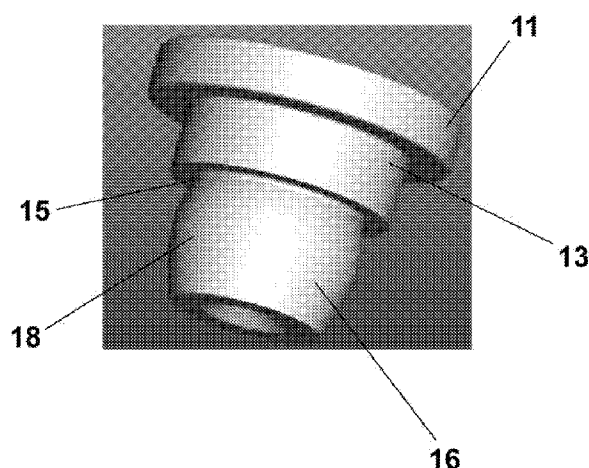


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(54) Title: CLINCH PIN FASTENER

**FIG. 1**



(57) Abstract: A clinch-type fastener is formed by simultaneously creating an undercut during the same forging that creates the head and displacer of the fastener. A fastener blank is compressed end-to-end between top and bottom dies whereby the axial compression of a blank causes the outward bulging of the shank at its midline. Simultaneously, a tapered end point and a tangential interference band are formed provided by a curvilinear-shaped bulge in the shank. As the bulge is formed an undercut is created between the bulge and a shoulder which extends downwardly from a head of the fastener. This method of formation and the fastener produced thereby are particularly suited to the manufacture of small clinch pins having a diameter in the range of 1.0 mm.



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