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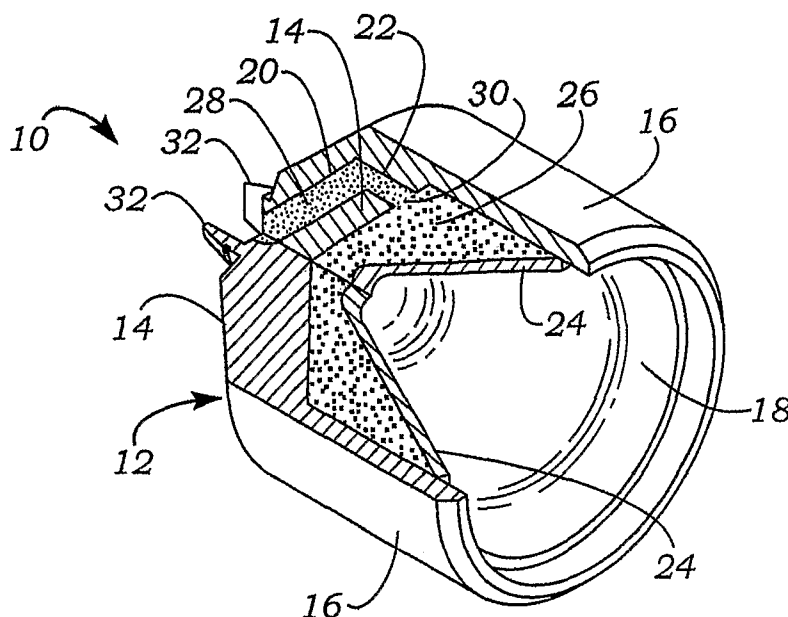
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(54) Title: METHOD TO IMPROVE PERFORATING EFFECTIVENESS USING A CHARGE PERFORATOR



(57) Abstract: A non-linear shaped charge perforator (10) for use in perforating an oil and gas formation into which a wellbore has been drilled comprises a monolithic, axisymmetric metal case (12) in which is disposed a main explosive charge between the front of the case, which is closed with a concave metal liner (24), and the closed back end (14) of the case. The main explosive charge contains multiple initiation points (30), preferably two initiation points located about 180° apart on the outside surface of the charge, so that when the perforator is detonated the main charge is initiated such that the metal liner is collapsed into a non-circular jet, preferably a fan-shaped jet, that pierces the casing of the wellbore and forms non-circular perforations, preferably slot-shaped perforations, in the surrounding formation.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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