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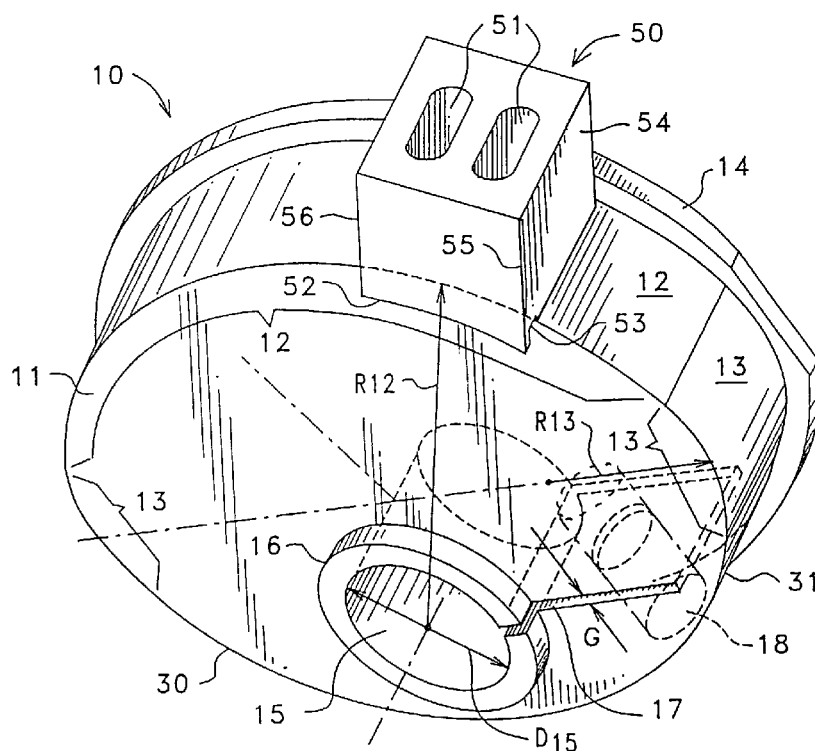
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- (72) Inventor: **AMKREUTZ, Frank**; Banker Feld Strabe 16,
52072 Aachen (DE). Published:
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(54) Title: BELT INSTALLATION TOOL



(57) Abstract: A belt installation tool (10) for installing a flexible belt on a pulley. On one side, the radius of the tool (10) is substantially equivalent to the radius of a pulley flange. The bearing surface (12) on this side of the tool stretches the belt and guides the belt onto the pulley. To avoid damaging the belt, the radius of the tool (10) and the pulley flange should be substantially equal over substantial length of the pulley. Centric to this radius, a hole (15) is provided to accommodate a single-end socket that projects through the tool. The socket engages a crankshaft bolt, hence, the belt installation tool (10) is centered on the pulley along the socket centerline. The tool and pulley are then turned with a ratchet attached to the socket. The tool (10) comprises a belt bearing surface (12) having variable radius that allows a belt to be stretched to a proper radius without abrupt radius changes, which could

damage a belt. The belt is moved axially from the tool (10) into the pulley grooves by a leaderblock (50), which is provided at the tool radius on the bearing surface (12) adjacent to the pulley grooves. By turning the tool (10) about the crankshaft the leaderblock (50) guides the belt flank, causing it to move into a pulley groove. The leaderblock (50) comprises a lip (52) to further hold the tool (10) on a pulley rim.

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