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(54) **Title**: INSERT FOR LOAD APPLICATION AND/OR ANCHORAGE OF VARIOUS COMPONENTS INTO RESPECTIVELY ONTO A COMPOSITE SANDWICH PANEL AND METHOD OF PRODUCING A LIGHTWEIGHT SUPPORT STRUCTURE COMPRISING THE SAME

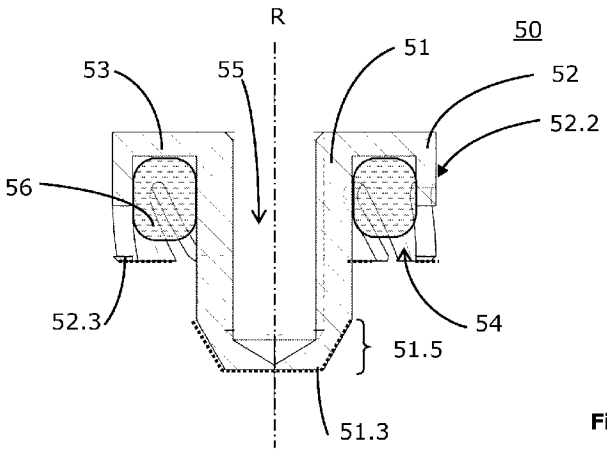


Fig. 6A

(57) **Abstract**: The invention relates to an insert (50) for load application respectively anchorage of various components into respectively onto a composite sandwich panel (5), the insert (50) comprising a rotationally symmetric inner insert ring (51) respectively outer insert ring (52); an insert connecting portion (53) connecting said inner insert ring (51) with said outer insert ring (52) and an insert trench (54) provided between the outer insert ring (52) and the inner insert ring (51), the insert (50) preferably being self-cutting, its inner insert ring (51) respectively outer insert ring (52) being at least partially provided with an abrasive coating and/or a saw-tooth geometry (51.3, 52.3), the insert (50) preferably being self-aligning its inner and/or outer insert ring (51) comprising a tapered conical section and the insert preferably being self- adhesive comprising a self-contained adhesive (56) arranged and configured for adhering the insert (50) into a cut-out (30) upon introduction therein.

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