

Title (en)
SELF-PIERCING RIVET WITH HIGH MECHANICAL STRENGTH AGAINST TEARING OUT AND SHEARING

Title (de)
STANZNIET MIT HOHER MECHANISCHER FESTIGKEIT GEGEN AUSREISSEN UND SCHEREN

Title (fr)
RIVET AUTO-PERCEUR A HAUTE RESISTANCE MECANIQUE A L'ARRACHEMENT ET AU CISAILLEMENT

Publication
EP 3368777 A1 20180905 (FR)

Application
EP 16809900 A 20161018

Priority
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• FR 2016052692 W 20161018

Abstract (en)
[origin: WO2017072430A1] A self-piercing rivet (1) comprising a support flange (2) and a piercing end (3), and having, between the flange (2) and the piercing end (3), an expandable hollow tubular body (4) that extends axially, the body comprising a first cylindrical part (5) adjacent to the flange (2) and a second cylindrical part (6) adjacent to the piercing end (3), and a third radially expandable part (7) between the first and second cylindrical parts (5, 6), the rivet (1) further comprising a breakable rod (14) that extends axially into the hollow body (4) for rotating the body axially and for deforming same radially at the third expandable part (7) under the effect of axial traction. The third part (7) of the body (4) is designed to produce an abrasive or deburring effect, prior to the radial deformation of same, on the peripheral edge of a hole pierced by the piercing end (3).

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Citation (search report)
See references of WO 2017072430A1

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