

Title (en)
U-O SHAPING OF A COMPONENT CURVED AROUND THREE SPATIAL AXES

Title (de)
U-O-FORMEN EINES UM DREI RAUMACHSEN GEKRÜMMTEN BAUTEILS

Title (fr)
FORMAGE U-O D'UN COMPOSANT COURBÉ SUIVANT TROIS AXES SPATIAUX

Publication
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Application
EP 19198564 A 20190920

Priority
DE 102018123456 A 20180924

Abstract (en)
[origin: CN110935759A] The present disclosure relates to a method for producing a shaped sheet metal component from a billet (1) by means of U-O forming, wherein firstly a preform is created by the U-forming and then a final shaping is performed by the O forming to give a final form. The process is characterized by including steps of: providing a planar billet; U-forming the billet to give a U-preform; near-net-shape cutting of the U-preform; placing the U-preform into an intermediate forming tool (15), bending-up a plurality of protruding edges (8) of the U-preform, especially ends (9) of the U-preform; placing a filling body (1) in the U-preform and bending edges (8) to overlap with the filling body (13), and pulling the filling body out of the U-preform after said bending step, so as to generate elastic and plastic deformation of the bent ends; and O-forming an obtained intermediate form (16).

IPC 8 full level
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EP 2720813 B1 20141001 - THYSSENKRUPP STEEL EUROPE AG [DE]

Cited by
CN115846471A; CN112845697A

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