

Title (en)
METHOD AND DEVICES FOR REFORMING A TUBULAR HOLLOW BODY

Title (de)
VORRICHTUNGEN UND VERFAHREN ZUM UMFORMEN EINES ROHRARTIGEN HOHLKÖRPERS

Title (fr)
DISPOSITIFS ET PROCÉDÉ DE FORMAGE D'UNE PIÈCE CREUSE TUBULAIRE

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Application
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Abstract (en)
[origin: WO2023046750A1] A device (5) for shaping a tubular hollow element (1) comprises a shaping matrix (9) for arranging on the outer side of the hollow element (1), a mandrel (10) for arranging inside the hollow element (1) and a shaping device (20) with a matrix drive (19). Matrix profile protrusions (13) of a matrix profile (12) of the shaping matrix (9) arranged on the axially parallel outer side of a hollow element wall (2), and mandrel profile intermediate spacings (17) of a mandrel profile (15) arranged on the axially parallel inner side of the hollow element wall (2), and matrix profile intermediate spacings (14) of the matrix profile (12) arranged on the axially parallel outer side of the hollow element wall (2), and mandrel profile protrusions (16) of the mandrel profile (15) arranged on the axially parallel inner side of the hollow element wall (2) lie opposite one another on the hollow element wall (2) in the radial direction of a hollow element axis (3). A method for shaping a tubular hollow body (1) is carried out by means of the above-mentioned device (5). Using a matrix drive (19), the shaping matrix (9) is moved with an axial matrix movement along the hollow element axis (3) relative to the hollow element (1) and also along the mandrel (10) arranged inside the hollow element (1). As a result of the matrix movement and a related exceeding of the yield point of the material of the hollow element wall (2), Material of the hollow element wall (2) flows into the mandrel profile intermediate spacings (17) of the mandrel (10), forming an internal profile (18) of the hollow element wall (2).

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