

Title (en)
METHOD FOR PRESS QUENCHING COMPONENTS CONSISTING OF SHEET STEEL

Title (de)
VERFAHREN ZUM PRESSHÄRTEN VON BAUTEILEN AUS STAHLBLECH

Title (fr)
PROCEDE POUR PRODUIRE DES COMPOSANTS TREMPES EN FEUILLES D'ACIER

Publication
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Application
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Abstract (en)
[origin: US2009211669A1] The invention relates to a method for producing quenched components consisting of sheet steel, comprising the following steps: a) shaped parts are formed from sheet steel; b) the end of the shaped part is cut and the sheet steel is optionally punched or provided with a desired hole pattern prior to, during, or after the forming of the shaped part; c) at least some sections of the shaped part are subsequently heated to a temperature that permits the steel material to austenitize; and d) the component is then transferred to a quenching die, where it is subjected to a quenching process, during which the component is cooled and thus quenched by the contact of the quenching die with some sections of the component and the compression of said sections. The invention is characterised in that the component is supported by the quenching die in the vicinity of the positive radii and that some sections of said component are clamped in a secure manner without distortion in the vicinity of the cut edges. In the sections of the component that are not clamped, the latter is separated from a quenching-die half by a gap.

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