

Title (en)

HOT PRESS PROCESSING DEVICE AND HOT PRESS PROCESSING METHOD

Title (de)

HEISSPRESSVERARBEITUNGSVORRICHTUNG UND HEISSPRESSVERARBEITUNGSVERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE TRAITEMENT SOUS PRESSION À CHAUD

Publication

**EP 3520917 A1 20190807 (EN)**

Application

**EP 17867786 A 20170209**

Priority

- JP 2016214708 A 20161101
- JP 2017004827 W 20170209

Abstract (en)

The purpose is to eliminate burrs-occurring on a press-formed work even with a configuration in which a trimming process is to be performed on a high-temperature blank sheet material, thereby eliminating deburring process that is to be performed after the forming, reducing the processing man-hours and consequently achieving product cost reduction. During the press forming process of forming a blank sheet material 3 while clamping a die 1 on a punch 2, a trim portion 3a is clamped between a trim holding step 6 and a cut holder 8 in such a state that elastic force of a spring mechanism 9 is being applied on the trim portion 3a. As a press forming operation by the die 1 goes on, the trimming blade 7 is relatively moved along an outer margin 5b of a punch-side forming surface portion 5 while the cut holder 8 opposes elastic force of the spring mechanism 9 by receiving pressing force of the trim holding step 6 so that the trimming blade 7 shears and cuts off the trim portion 3a between the trimming blade 7 and the tip end corner 5c on the outer margin 5b of the punch-side forming surface portion 5.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018083814A1

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