

Title (en)

Die for clinch joints

Title (de)

Durchsetzfügematrize

Title (fr)

Matrice pour joints à mi-fer

Publication

EP 0835701 A3 19991110 (DE)

Application

EP 97115887 A 19970912

Priority

- DE 29617574 U 19961009
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Abstract (en)

[origin: US5992206A] A tool set for clinch-connecting superposed sheet materials is disclosed, the tool set comprising a punch and a die. The die includes an anvil and shaping elements displaceably disposed on the anvil. All shaping elements are positioned by one single metallic member mounted on the die such that it is destroyed upon removal. Also, a novel socket for mounting the tool set on a press is disclosed.

IPC 1-7

B21D 39/03

IPC 8 full level

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CPC (source: EP US)

B21D 28/34 (2013.01 - EP US); **B21D 37/04** (2013.01 - EP US); **B21D 39/031** (2013.01 - EP US); **B21J 13/03** (2013.01 - EP US); **Y10T 29/34** (2015.01 - EP US)

Citation (search report)

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- [A] US 5315743 A 19940531 - SCHLEICHER LOUIS C [US]
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Designated contracting state (EPC)

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US 94689097 A 19971008; AT 97115887 T 19970912; DE 59711026 T 19970912; EP 97115887 A 19970912; ES 97115887 T 19970912; JP 2004235946 A 20040813; JP 27744497 A 19971009