

Title (en)  
Sheet metal working machine

Title (de)  
Blechbearbeitungsmaschine

Title (fr)  
Machine à travailler la tôle

Publication  
**EP 1634663 B1 20071128 (EN)**

Application  
**EP 05108279 A 20050909**

Priority  
IT BO20040561 A 20040910

Abstract (en)  
[origin: EP1634663A1] The machine has two turrets (2, 6) supporting punch assemblies (3) and die assemblies (7); a hammer (11); and two devices (17, 18) for rotating the punch and die assemblies (3, 7) about a vertical axis. The devices each have a body (125, 135) supporting a gear (126, 137); a motor (128, 138) for rotating the gear about a vertical axis (T2); and an actuator (140, 141) for moving the body (125, 135) between an engaged position, wherein the punch and die assemblies mesh with the gear, and a release position.

IPC 8 full level  
**B21D 28/12** (2006.01); **B21D 28/36** (2006.01)

CPC (source: EP)  
**B21D 28/12** (2013.01)

Cited by  
EP2210684A1; CN107839363A; CN105290231A; CN112453180A; EP2177290A1; FR3046735A1; JP2017522189A; RU2674595C2; WO2008049079A1; WO2016016807A1; JP2010506734A; US8701532B2; US9573182B2; US9878363B2; US8627753B2; US9839953B2; US10792722B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 1634663 A1 20060315; EP 1634663 B1 20071128**; DE 602005003521 D1 20080110; IT BO20040561 A1 20041210

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