

Title (en)

Tool for a sheet metal processing machine and method for separating a film

Title (de)

Werkzeug für eine Blechbearbeitungsmaschine und Verfahren zum Trennen einer Folie

Title (fr)

Outil pour une machine de traitement de tôle et procédé de séparation d'une feuille

Publication

EP 2502716 B1 20131106 (DE)

Application

EP 11159046 A 20110321

Priority

EP 11159046 A 20110321

Abstract (en)

[origin: EP2502716A1] The tool (11) has a rotatably supported ball (16) designed such that a film (18) is separated from a metal sheet (10) by rolling movement of the ball. A ball retaining device (12) has a retaining area (14) at an end that is turned towards the sheet metal, where diameter of the ball is less than 1 mm. The retaining device has a hollow cavity (17) for accommodating lubricant for reducing friction coefficients between a surface of the ball and an inner surface of the retaining area. The hollow cavity is connected with the retaining area, where the ball is made from ceramics. An independent claim is also included for a method for separating a film from sheet metal.

IPC 8 full level

B26D 3/08 (2006.01); **B26F 3/04** (2006.01)

CPC (source: EP US)

B26D 3/085 (2013.01 - EP US); **B26F 3/04** (2013.01 - EP US); **C23F 1/08** (2013.01 - EP US); **B26F 1/3813** (2013.01 - EP US); **Y10T 83/04** (2015.04 - EP US); **Y10T 83/263** (2015.04 - EP US); **Y10T 83/6656** (2015.04 - EP US); **Y10T 83/9372** (2015.04 - EP US)

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2502716 A1 20120926; **EP 2502716 B1 20131106**; CN 102689319 A 20120926; CN 102689319 B 20160120; JP 2012196757 A 20121018; JP 5812909 B2 20151117; US 2012260780 A1 20121018; US 9339942 B2 20160517

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