

Title (en)

Press plant with several presses for treating sheet steel parts

Title (de)

Pressen-Anlage mit mehreren Pressen zum Bearbeiten von Blechteilen

Title (fr)

Agencement de presses avec plusieurs presses pour transformation de pièces de tôle

Publication

EP 0388610 B2 19980304 (DE)

Application

EP 90102072 A 19900202

Priority

DE 3905069 A 19890218

Abstract (en)

[origin: EP0388610A1] The hybrid press plant comprises a plurality of individual presses with a drawing press (1) and progressive presses (2). These are set up via stands (16, 17) on common mounting surfaces (20). A tool is assigned to each press (1, 2), comprising a top piece, a ram (26), a press table (15) and a sliding table (11). The tools can be replaced by means of the sliding table (11). Guided through the hybrid press plant is a transfer device (13), the individual parts of which are arranged above the plane in which the sheet-metal parts are transported and grasp the sheet-metal parts from above. Intermediate deposition points between two processing stages are designated by (12). This reduces the length of the transfer movement of the sheet-metal parts per punch stroke. Large-area and thin-walled, hence intrinsically stable, sheet-metal parts can be transferred. <IMAGE>

IPC 1-7

B21D 43/05

IPC 8 full level

B21D 43/00 (2006.01); **B21D 43/05** (2006.01); **B30B 13/00** (2006.01); **B30B 15/00** (2006.01)

CPC (source: EP US)

B21D 43/052 (2013.01 - EP US); **B21D 43/055** (2013.01 - EP US); **B30B 15/04** (2013.01 - EP US)

Cited by

EP0653254A3; FR2976199A1; DE19506518C2; EP0850752A1; EP2463039A1; ITMI20101949A1; DE10328447A1; DE10328447B4; DE19855862A1; DE19855862C2; EP0581008A3; EP0722793A3; US8429811B2; US6453718B1

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0388610 A1 19900926; **EP 0388610 B1 19930609**; **EP 0388610 B2 19980304**; AT E90236 T1 19930615; CA 1316047 C 19930413; DE 3905069 A1 19900823; DE 3905069 C2 20001012; DE 59001647 D1 19930715; ES 2044252 T3 19940101; ES 2044252 T5 19980501; JP H02247031 A 19901002; RU 2076011 C1 19970327; US 5012665 A 19910507

DOCDB simple family (application)

EP 90102072 A 19900202; AT 90102072 T 19900202; CA 613739 A 19890927; DE 3905069 A 19890218; DE 59001647 T 19900202; ES 90102072 T 19900202; JP 3403290 A 19900216; SU 4743013 A 19900216; US 42858789 A 19891030