

Title (en)

Method for exchanging tool in tandem press system and tandem press system

Title (de)

Werkzeugswechselverfahren in einer Mehrstufenpresse und solche Mehrstufenpresse

Title (fr)

Procédé pour le changement d'outil dans un système de presse en tandem et telle presse en tandem

Publication

EP 2463039 A1 20120613 (EN)

Application

EP 10194398 A 20101209

Priority

EP 10194398 A 20101209

Abstract (en)

A tandem press system (1) includes a plurality of presses (10U,10D) disposed in a workpiece transfer direction (X), a workpiece transfer device (20) that transfers a workpiece from an upstream press (10U) to a downstream press (10D) using a tool (65) mounted on the workpiece transfer device (20) via a crossbar (61), and a tool replacement device (30) that replaces the tool (65) mounted on the workpiece transfer device (20). The tool replacement device (30) can be transferred from an inter-press space (11) between the upstream press (10U) and the downstream press (10D) to an external space (105) in a tool replacement direction (Y t) independently of transfer of a bolster (14) provided with a die to an external space (104) in a die replacement direction (Y d).

IPC 8 full level

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

CPC (source: EP)

B21D 43/05 (2013.01); **B21D 43/052** (2013.01); **B21D 43/057** (2013.01); **B30B 15/00** (2013.01); **B30B 15/028** (2013.01)

Citation (applicant)

- JP 2004050290 A 20040219 - MUELLER WEINGARTEN MASCHF
- JP 2005161379 A 20050623 - KOMATSU MFG CO LTD

Citation (search report)

- [AD] JP 2004050290 A 20040219 - MUELLER WEINGARTEN MASCHF
- [AD] JP 2005161379 A 20050623 - KOMATSU MFG CO LTD
- [A] JP 2000343160 A 20001212 - KOMATSU MFG CO LTD
- [A] EP 0388610 A1 19900926 - SCHULER GMBH L [DE]
- [A] DE 4201387 A1 19930722 - ERFURT UMFORMTECHNIK GMBH [DE]
- [A] US 5140839 A 19920825 - BRUNS EILERT F [US]

Cited by

CN106270165A; WO2023104242A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2463039 A1 20120613; EP 2463039 B1 20130306

DOCDB simple family (application)

EP 10194398 A 20101209