

Title (en)

DIE SUPPORT MECHANISM, CYLINDRICAL WORKPIECE GENERATION DEVICE, AND TRANSFER PRESS MACHINE

Title (de)

MATRIZENTRÄGERMECHANISMUS, VORRICHTUNG ZUR ERZEUGUNG EINES ZYLINDRISCHEN WERKSTÜCKS UND TRANSFERPRESSE

Title (fr)

MÉCANISME DE SUPPORT DE MATRICE, DISPOSITIF DE PRODUCTION DE PIÈCE CYLINDRIQUE ET MACHINE DE PRESSE DE TRANSFERT

Publication

**EP 4260959 A4 20240605 (EN)**

Application

**EP 21925744 A 20210909**

Priority

- JP 2021020613 A 20210212
- JP 2021033174 W 20210909

Abstract (en)

[origin: EP4260959A1] [Problem] Provided is a technique for preventing a failure in which a blanking punch is pressed against an opening edge of a punch hole.[Solution] A die support mechanism 40 of the present disclosure includes a die holding member 41 through which a slit 41S passes, and a lower side of the die holding member 41 with respect to the slit 41S forms a die holding base 42 that holds a blanking die 32, and an upper side with respect to the slit 41S forms a ceiling portion 43 having a ceiling hole 44 concentric with a punch hole 32A of the blanking die 32. Then, the die holding member 41 is supported by the support base 50 in a horizontally slidable manner, and a guide portion of the ceiling hole 44 is in sliding contact with the blanking punch 31, whereby the die holding member 41 slides to a position where the punch hole 32A is centered on the blanking punch 31.

IPC 8 full level

**B21D 22/28** (2006.01); **B21D 28/02** (2006.01); **B21D 43/05** (2006.01)

CPC (source: EP KR US)

**B21D 22/02** (2013.01 - US); **B21D 22/28** (2013.01 - KR); **B21D 22/30** (2013.01 - EP); **B21D 24/16** (2013.01 - EP); **B21D 28/04** (2013.01 - KR); **B21D 28/14** (2013.01 - KR); **B21D 28/343** (2013.01 - KR); **B21D 35/001** (2013.01 - EP); **B21D 37/08** (2013.01 - EP); **B21D 37/10** (2013.01 - US); **B21D 43/003** (2013.01 - US); **B21D 43/05** (2013.01 - EP KR)

Citation (search report)

- [AD] JP 2016203212 A 20161208 - ASAHI- SEIKI MFG CO LTD
- [A] US 3768295 A 19731030 - CUDZIK D
- [A] EP 2921240 A1 20150923 - TRUMPF WERKZEUGMASCHINEN GMBH [DE]
- See also references of WO 2022172496A1

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

DOCDB simple family (publication)

**EP 4260959 A1 20231018**; **EP 4260959 A4 20240605**; CN 116583360 A 20230811; JP 2022123353 A 20220824; JP 6866056 B1 20210428; KR 20230106179 A 20230712; US 2024066582 A1 20240229; WO 2022172496 A1 20220818

DOCDB simple family (application)

**EP 21925744 A 20210909**; CN 202180084400 A 20210909; JP 2021020613 A 20210212; JP 2021033174 W 20210909; KR 20237020025 A 20210909; US 202118268778 A 20210909