

Title (en)

CAN BODY MAKER AND FRAME FOR DRIVE MECHANISM

Title (de)

DOSENHERSTELLER UND RAHMEN FÜR ANTRIEBSMECHANISMUS

Title (fr)

DISPOSITIF DE FABRICATION DE CORPS BOÎTES MÉTALLIQUES ET CADRE POUR MÉCANISME D'ENTRAÎNEMENT

Publication

**EP 3943206 A3 20220420 (EN)**

Application

**EP 21184734 A 20210709**

Priority

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- JP 2020123739 A 20200720

Abstract (en)

A can body maker includes a ram shaft extending in a front-rear direction, a punch disposed at a front end portion of the ram shaft, a reciprocating linear motion mechanism connected to a rear end portion of the ram shaft to reciprocate and linearly move the ram shaft in the front-rear direction, a die having a through hole into which the punch is inserted, a cup holding mechanism which presses a cup-shaped body against an end face in which the through hole of the die opens, and a cup holder drive mechanism that oscillates the cup holding mechanism in the front-rear direction, wherein the cup holder drive mechanism has a cam structure and is disposed directly below the cup holding mechanism.

IPC 8 full level

**B21D 22/28** (2006.01); **B21D 22/22** (2006.01); **B21D 24/12** (2006.01); **B21D 51/26** (2006.01)

CPC (source: CN EP US)

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Citation (search report)

- [X] US 4807459 A 19890228 - GRIMS CONRAD M [US], et al
- [X] CN 111185513 A 20200522 - SUZHOU SLAC PREC EQUIPMENT CO LTD
- [X] US 3704619 A 19721205 - PARAMONOFF ELPIDIFOR
- [X] US 5454253 A 19951003 - MUELLER PETER M [US]
- [I] JP 2018192510 A 20181206 - UNIVERSAL SEIKAN KK
- [XYI] US 2020047237 A1 20200213 - SCHOLEY IAN KENNETH [GB], et al
- [XI] US 2015059429 A1 20150305 - BUTCHER GREGORY H [US], et al
- [Y] EP 0589203 A2 19940330 - MITSUBISHI MATERIALS CORP [JP]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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