

Title (en)

WORKPIECE MANIPULATION DEVICE FOR A SWIVEL BENDING MACHINE

Title (de)

WERKSTÜCKMANIPULATIONSVORRICHTUNG FÜR EINE SCHWENKBIEGEMASCHINE

Title (fr)

DISPOSITIF DE MANIPULATION DE PIÈCE POUR PLIEUSE PIVOTANTE

Publication

EP 4243999 A1 20230920 (DE)

Application

EP 21823724 A 20211115

Priority

- AT 509942020 A 20201116
- AT 2021060432 W 20211115

Abstract (en)

[origin: WO2022099345A1] The invention relates to a workpiece manipulation device (3) for a swivel bending machine (2), the workpiece manipulation device (3) comprising: - a base frame (7); - a manipulation device carrier (12) which is arranged on the base frame (7) so as to be displaceable along a Y axis (14) relative to the base frame by means of a manipulation device carrier guide (13); - a manipulation arm (15) which is arranged on the manipulation device carrier (12) so as to be displaceable along a Z axis (17) relative to the latter by means of a manipulation arm guide (16); - a first rotary punch (19) which is arranged on the manipulation arm (15); - a second rotary punch (21) which is arranged on the manipulation device carrier (12). The manipulation device carrier (12) is L-shaped and has a first leg (22) which extends along a Y axis (14), and a second leg (23) which extends along the Z axis (17), wherein the manipulation arm guide (16) is formed on the second leg (23), and wherein a spacing (24) between the manipulation arm guide (16) and the axis of rotation (20) of the first rotary punch (19) is greater than 1000 mm.

IPC 8 full level

B21D 5/04 (2006.01); **B21D 43/10** (2006.01)

CPC (source: AT EP US)

B21D 5/04 (2013.01 - AT); **B21D 5/042** (2013.01 - EP US); **B21D 43/105** (2013.01 - AT EP US); **B21D 43/11** (2013.01 - AT US)

Citation (search report)

See references of WO 2022099345A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022099345 A1 20220519; AT 524469 A1 20220615; CN 116490300 A 20230725; EP 4243999 A1 20230920; JP 2023550076 A 20231130; US 2023398592 A1 20231214

DOCDB simple family (application)

AT 2021060432 W 20211115; AT 509942020 A 20201116; CN 202180077006 A 20211115; EP 21823724 A 20211115; JP 2023528747 A 20211115; US 202118034109 A 20211115