

Title (en)
INTERMEDIATE STORAGE BETWEEN OPERATION STEPS OF A PRESS

Publication
EP 0418638 A3 19910417 (DE)

Application
EP 90116942 A 19900904

Priority
DE 3931081 A 19890918

Abstract (en)
[origin: CA2025143A1] An intermediate depositing station between machining stages of a metal forming machine, having templates for supporting a sheet metal part from below which are adjustable in height, distance and oblique position relative to another sheet metal part. The intermediate depositing station has a mounting plate that is displaceable in a first horizontal direction with respect to a foundation. A first adjusting device is coupled to the mounting plate and is operable to displace the mounting plate horizontally. A carriage plate is coupled to the mounting plate and is displaceable in a second horizontal direction that is transverse to the first horizontal direction. A second adjusting device is coupled to the carriage plate and is operable to displace the carriage plate horizontally. A console is coupled vertically on the carriage plate. A third adjusting device is coupled to the console and is operable to lift and lower the console. The intermediate depositing station has a pivot bearing on the console, and a fifth adjusting device pivoted in the pivot bearing and having an output. A bracket is coupled to the fifth adjusting device. A fourth adjusting device is coupled to the fifth adjusting device via the bracket and is operable to pivot the fifth adjusting device. Supporting brackets couple the fifth adjusting device output to the templates, the fifth adjusting device being rotationally drivable in forward and reverse directions.

IPC 1-7
B21D 43/05

IPC 8 full level
B21D 43/00 (2006.01); **B21D 43/05** (2006.01)

CPC (source: EP US)
B21D 43/057 (2013.01 - EP US)

Citation (search report)

- [AD] DE 2747238 A1 19790426 - SCHULER GMBH L
- [AD] US 3875808 A 19750408 - OKAMOTO YUKIRO [JP], et al
- [AD] US 4730825 A 19880315 - MIKUSCH GERALD [DE], et al
- [Y] FR 2346071 A1 19771028 - DANLY MACHINE CORP [US]
- [Y] DE 2757622 A1 19790628 - VOLKSWAGENWERK AG
- [A] DE 3737913 A1 19890518 - MUELLER WEINGARTEN MASCHF [DE]
- [A] DE 2726289 B2 19790523

Cited by
CN111842592A; EP0523478A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0418638 A2 19910327; EP 0418638 A3 19910417; EP 0418638 B1 19950201; CA 2025143 A1 19910319; CA 2025143 C 20010213; DD 295781 A5 19911114; DE 3931081 A1 19910328; DE 59008407 D1 19950316; ES 2069642 T3 19950516; RU 1831399 C 19930730; US 5048318 A 19910917

DOCDB simple family (application)
EP 90116942 A 19900904; CA 2025143 A 19900912; DD 34405090 A 19900917; DE 3931081 A 19890918; DE 59008407 T 19900904; ES 90116942 T 19900904; SU 4831076 A 19900917; US 58096790 A 19900912