

Title (en)
BENDING MACHINE

Title (de)
BIEGEMASCHINE

Title (fr)
PRESSE-PLIEUSE

Publication
EP 2674232 A1 20131218 (EN)

Application
EP 12744487 A 20120207

Priority
• JP 2011025800 A 20110209
• JP 2012052761 W 20120207

Abstract (en)
A bending machine (1) includes a frame (2) that has a punch-side frame section (23) and a die-side frame section (25), a punch holder (8) provided on the punch-side frame section (23), a die holder (10) provided on the die-side frame section (25), a pressing mechanism (3) for pressing a punch (6) toward a die (7), a first deflection detector (11) for detecting a displacement of the punch (6), a second deflection detector (42) for detecting an actual displacement of the punch (6), and a controller (5); and the controller (5) previously stores a relation between a deflection of the frame (2) and a bending length, material and a sheet thickness of a sheet material, calculates an actual deflection of the frame (2) by subtracting a detection value of the second deflection detector (42) from a detection value of the first deflection detector (11), gets a target deflection of the frame (2) for bending a sheet material to be bent based on the relation stored, and controls the pressing mechanism (3) so that the actual deflection becomes consistent with the target deflection.

IPC 8 full level
B21D 5/02 (2006.01)

CPC (source: EP US)
B21D 5/004 (2013.01 - EP US); **B21D 5/0272** (2013.01 - EP US); **B21D 22/02** (2013.01 - US)

Cited by
CN105598222A; CN105598219A; WO2021119704A1

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 2674232 A1 20131218; **EP 2674232 A4 20160907**; **EP 2674232 B1 20170510**; CN 103370150 A 20131023; CN 103370150 B 20160420; JP 5579877 B2 20140827; JP WO2012108436 A1 20140703; US 2013312479 A1 20131128; WO 2012108436 A1 20120816

DOCDB simple family (application)
EP 12744487 A 20120207; CN 201280008120 A 20120207; JP 2012052761 W 20120207; JP 2012556901 A 20120207; US 201213984317 A 20120207