

Title (en)
OFFSET COMPENSATION METHOD

Title (de)
VERFAHREN ZUR VERSATZMASSKOMPENSATION

Title (fr)
PROCÉDÉ DE COMPENSATION DE COTE DE DÉALIGNEMENT

Publication
EP 3948456 A1 20220209 (DE)

Application
EP 20717548 A 20200331

Priority
• DE 102019108388 A 20190401
• EP 2020059036 W 20200331

Abstract (en)
[origin: WO2020201245A1] The invention relates to a method for detecting and compensating for a degree of offset between the punching coordinates of a punching device and the laser coordinates of a laser device when using a combination punch-laser machine for machining a plate-shaped workpiece, in particular sheet metal. The method has the following steps: a. introducing a structure into the plate-shaped workpiece by means of the punching device or by means of the laser device; b. ascertaining a measurement variable of the structure which is introduced using the laser device or using the punching device; c. comparing the measurement variable with an expected variable, wherein a deviation between the measurement variable and the expected variable corresponds to a degree of offset; and d. calculating the degree of offset using the coordinates of the laser device in the laser coordinate system or the coordinates of the punching device in the punching coordinate system in order to compensate for the degree of offset between the punching coordinates and the laser coordinates.

IPC 8 full level
G05B 19/404 (2006.01)

CPC (source: EP US)
B21D 28/04 (2013.01 - US); **B21D 28/26** (2013.01 - US); **B23K 26/38** (2013.01 - US); **G05B 19/182** (2013.01 - US); **G05B 19/404** (2013.01 - EP); **G05B 2219/45234** (2013.01 - EP US); **G05B 2219/49235** (2013.01 - EP US); **G05B 2219/50057** (2013.01 - EP US)

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

DOCDB simple family (publication)
DE 102019108388 A1 20201001; CN 113632021 A 20211109; EP 3948456 A1 20220209; JP 2022527522 A 20220602; JP 7295266 B2 20230620; US 2022187782 A1 20220616; WO 2020201245 A1 20201008

DOCDB simple family (application)
DE 102019108388 A 20190401; CN 202080024452 A 20200331; EP 2020059036 W 20200331; EP 20717548 A 20200331; JP 2021558738 A 20200331; US 202017600707 A 20200331