

Title (en)

CUTTING MACHINE WITH OVERVIEW CAMERA

Title (de)

SCHNEIDEMASCHINE MIT ÜBERBLICKSKAMERA

Title (fr)

DÉCOUPEUSE AVEC CAMÉRA DE VISION GÉNÉRALE

Publication

EP 3606709 A1 20200212 (DE)

Application

EP 17716189 A 20170405

Priority

EP 2017058153 W 20170405

Abstract (en)

[origin: WO2018184677A1] The invention relates to a cutting machine (1) designed to cut objects (40, 40') with a flat surface, the surface having a graphical design (44, 44') with optical registration features, comprising a working surface (10) for receiving at least one object (40, 40'), a first camera unit (20) arranged in relation to the working surface (10) in such a way that the field of vision thereof encompasses the whole working surface (10), a working group (12) arranged above the working surface (10) in a movable manner, and at least one cutting device (15) for cutting the at least one object (40, 40'), and a computing unit (30) with a circuit and programme code for controlling the cutting machine (1), comprising a storage unit for storing instructions for cutting determined objects (40, 40'), the computing unit (30) comprising a circuit and programme code for evaluating images (50) of the first camera unit (20) and being designed to identify registration features of the at least one object (40, 40') in an image (50) of the first camera unit (20), and being designed to define a cutting path (45, 45') for the cutting device (15) according to at least one stored instruction and based on positions of the registration features (42) in the image (50).

IPC 8 full level

B26D 5/00 (2006.01); **B26D 5/34** (2006.01); **B26F 1/38** (2006.01)

CPC (source: CN EP US)

B26D 5/005 (2013.01 - CN EP US); **B26D 5/007** (2013.01 - CN EP US); **B26D 5/34** (2013.01 - CN EP US); **B26F 1/3813** (2013.01 - CN EP US); **B26D 2005/002** (2013.01 - CN)

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)

WO 2018184677 A1 20181011; CN 110582385 A 20191217; CN 110582385 B 20220111; CN 114227791 A 20220325; CN 114227791 B 20240507; CN 114260968 A 20220401; CN 114274260 A 20220405; EP 3606709 A1 20200212; EP 3606709 B1 20240221; EP 4302948 A2 20240110; EP 4302948 A3 20240327; EP 4302949 A2 20240110; EP 4302949 A3 20240410; EP 4324609 A2 20240221; EP 4324609 A3 20240522; US 11400614 B2 20220802; US 11712815 B2 20230801; US 2020031009 A1 20200130; US 2022219347 A1 20220714; US 2023219248 A1 20230713

DOCDB simple family (application)

EP 2017058153 W 20170405; CN 201780090415 A 20170405; CN 202111580506 A 20170405; CN 202111581521 A 20170405; CN 202111581525 A 20170405; EP 17716189 A 20170405; EP 23211403 A 20170405; EP 23211411 A 20170405; EP 23211413 A 20170405; US 201716603185 A 20170405; US 202217700924 A 20220322; US 202318183150 A 20230313