

Title (en)

METHODS AND APPARATUS FOR APPLYING DECORATIVE ELEMENTS TO WORKPIECES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFBRINGEN VON DEKORATIVEN ELEMENTEN AUF WERKSTÜCKE

Title (fr)

PROCÉDÉS ET APPAREIL PERMETTANT D'APPLIQUER DES ÉLÉMENTS DÉCORATIFS SUR DES PIÈCES À USINER

Publication

EP 3763543 A1 20210113 (EN)

Application

EP 19185868 A 20190711

Priority

EP 19185868 A 20190711

Abstract (en)

Apparatus for automatically applying a decorative element to a workpiece comprises an element applicator configured to apply the decorative element in an application direction at an application location, a moveable support for supporting the workpiece, the support being moveable by translation and/or rotation along and/or about an axis transverse to the application direction, and a control arrangement. The control arrangement is configured to determine, or receive information relating to, an element location at which the decorative element is to be applied to the workpiece, cause relative translation and/or rotation between the support and the decorative element applicator along and/or about an axis transverse to the application direction to align and/or orient the application location with the element location, and cause the decorative element applicator to apply the decorative element at the element location of the workpiece.

IPC 8 full level

B44B 9/00 (2006.01); **B44C 1/18** (2006.01); **B44C 1/26** (2006.01)

CPC (source: EP)

B44B 9/00 (2013.01); **B44C 1/18** (2013.01)

Citation (search report)

- [X] DE 19514132 A1 19961017 - FRAUNHOFER GES FORSCHUNG [DE]
- [X] DE 193995 C 19080109
- [I] ES 2257961 A1 20060801 - CONSTRUCCIONES Y APLICACIONES [ES]
- [I] US 6003577 A 19991221 - MORITO YUHKOH [JP]
- [X] DE 9117221 U1 19970904 - KRATZL RUDOLF DIPL ING [DE]
- [XI] DENSOROBOTICSEUROPE: "Denso Robots Placing Swarovski stones", YOUTUBE, 8 February 2016 (2016-02-08), pages 1 pp., XP054980081, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=lb3wpwx3MsY> [retrieved on 20200107]
- [X] "High-Speed Pick & Place Robots by Bastian Solutions", YOUTUBE, 3 April 2012 (2012-04-03), pages 1 pp., XP054980083, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=6RKXVefE98w> [retrieved on 20200108]

Cited by

CN117818244A; US2022016669A1; US11969751B2

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)

EP 3763543 A1 20210113

DOCDB simple family (application)

EP 19185868 A 20190711