

Title (en)

PRODUCTION FACILITY FOR PRINTING HOLLOW BODIES

Title (de)

PRODUKTIONSANLAGE ZUM BEDRUCKEN VON HOHLKÖRPERN

Title (fr)

INSTALLATION DE PRODUCTION POUR L'IMPRESSION DE CORPS CREUX

Publication

EP 3847021 B1 20220713 (DE)

Application

EP 19752489 A 20190808

Priority

- DE 102018121537 A 20180904
- EP 2019071347 W 20190808

Abstract (en)

[origin: WO2020048724A1] The invention relates to a production facility for printing hollow bodies, comprising a transport unit (02) and at least one printing unit (03), wherein the transport unit (02) comprises a mandrel wheel (09) which successively receives the hollow bodies (01) to be printed and interacts with the at least one printing unit (03), wherein the mandrel wheel (09) comprises a plurality of clamping arbors (36) which are each arranged axially parallel to the axis of rotation (31) of the mandrel wheel, wherein, in the region of a print position (23) of the at least one printing unit (03), a distance (a) between the mandrel wheel (09) and the printing unit (03) in question is variably adjustable by a radial movement of the clamping arbor (36) in question, wherein a detector (33) connected to the control unit (16) is provided, by means of which the control unit (16) checks whether, in a running production process of the production facility, a hollow body (01) to be printed is arranged on each clamping arbor (36) of the mandrel wheel (09), wherein each clamping arbor (36) of the mandrel wheel (09) comprises a linear motor (32) which is controlled by a control unit (16) and by means of which, in the region of the print position (23) of the at least one printing unit (03), the distance (a) between said clamping arbor (36) and the printing unit (03) in question is adjusted or at least adjustable by a radial movement of the clamping arbor (36) in question, generated by the linear motor (32), wherein, in the event of an empty clamping arbor (36), the distance (a) between said clamping arbor (36) and the printing unit (03) in question is increased by an adjusting movement of the linear motor (32) associated with the clamping arbor (36) in question and controlled by the control unit (16), and the empty clamping arbor (36) is held such that it is not in contact with the printing unit (03) in question.

IPC 8 full level

B41F 17/00 (2006.01); **B41F 17/22** (2006.01); **B41F 33/02** (2006.01)

CPC (source: EP)

B41F 17/002 (2013.01); **B41F 17/22** (2013.01); **B41F 33/02** (2013.01)

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)

DE 102018121537 A1 20200305; EP 3847021 A1 20210714; EP 3847021 B1 20220713; WO 2020048724 A1 20200312

DOCDB simple family (application)

DE 102018121537 A 20180904; EP 19752489 A 20190808; EP 2019071347 W 20190808