Title (en)

Apparatus and method for continuous machining the edges of work pieces

Title (de)

Vorrichtung und Verfahren zur Durchlaufbearbeitung von Werkstücken im Kantenbereich

Title (fr)

Appareil et procédé pour usiner en continu les bords des pièces

Publication

EP 1818147 A2 20070815 (DE)

Application

EP 07010965 A 20040419

Priority

- EP 04009203 A 20040419
- DE 10317953 A 20030417

Abstract (en)

The device for the processing of flat or strip-formed open-porous wood components (1) e. g. particle boards and medium-density fiber boards, comprises a coating mechanism for application and smooth-coating of a coating mass (B) on a section of the wood component. The coating mechanism exhibits a nozzle element (4), which possesses a nozzle bore (6), which faces the section(s) and which is limited by a first surface and second surface (10). The first surface is arranged in a coating direction before the second surface and stands out when compared to the second surface. The device for the processing of flat or strip-formed open-porous wood components (1) e. g. particle boards and medium-density fiber boards, comprises a coating mechanism for application and smooth-coating of a coating mass (B) on a section of the wood component. The coating mechanism exhibits a nozzle element (4), which possesses a nozzle bore (6), which faces the section(s) and which is limited by a first surface and second surface (10). The first surface is arranged in a coating direction before the second surface and stands out when compared to the second surface. The projection (s) of the first surface when compared to the second surface corresponds to the thickness of the coating mass to be applied. The nozzle element exhibits first section (4 ') and a second section (4 "), which are inter-connected. One of the sections possesses a recess on the surface facing the other section for the formation of the nozzle bore and/or of the cavity. The first surface possesses an edge, which in sections lies close to the section(s) during the operation of the device. The outline of the first and/or second surface essentially corresponds to the outline of the section(s). A supply mechanism is intended, by means of which the coating mass can be fed into the nozzle bore. The coating mass can be heat-treated by the supply mechanism. The nozzle element exhibits a cavity, which is connected with the nozzle bore and the supply mechanism. The cavity possesses a larger cross section than that of the nozzle bore. A hardening unit is intended, by means of which the coating mass is hardenable. The hardening unit exhibits a mechanism for producing UV-rays. The device further comprises a conveyer system for transferring wood components to be processed in a process direction, and/or a shaping unit for rendering the section(s) of the wood components with a definite outline, and/or an abrasive unit to abrade to desired dimensions of the section and/or the applied coating mass. An independent claim is included for procedure for the processing of flat or strip-formed open-porous wood components e. g. particle boards and medium-density fiber boards.

Abstract (de)

Die vorliegende Erfindung stellt eine Vorrichtung zur Bearbeitung von im wesentlichen flächigen oder leistenförmigen Werkstücken (1) aus offenporigen Holzwerkstoffen oder dergleichen im Kantenbereich bereit, mit einer Beschichtungseinrichtung zum Auftragen und Glätten einer Beschichtungsmasse (B) auf den mindestens einen Kantenabschnitt (1'), dadurch gekennzeichnet, dass die Beschichtungseinrichtung ein Düsenelement (4) aufweist, das eine Düsenöffnung (6) besitzt, die dem mindestens einen Kantenabschnitt (1') zugewandt ist und zumindest durch eine erste Fläche (8) und eine zweite Fläche (10) begrenzt ist, wobei die erste Fläche (8) in einer Beschichtungsrichtung vor der zweiten Fläche (10) angeordnet ist und gegenüber der zweiten Fläche (10) hervorsteht.

IPC 8 full level

B27N 7/00 (2006.01)

CPC (source: EP)

B27N 7/00 (2013.01)

Citation (applicant)

- DE 19907939 C1 20000531 - HOMAG MASCHINENBAU AG [DE]
- EP 0864407 A1 19980916 - WESSEL KARL HEINZ [DE], et al

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DE ES FR IT PL

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