

Title (en)

Apparatus for trimming the edges of planks.

Title (de)

Vorrichtung zum Besäumen von Holzbrettern.

Title (fr)

Dispositif pour le délimage de planches.

Publication

**EP 0055793 A2 19820714 (DE)**

Application

**EP 81106664 A 19810827**

Priority

DE 3049258 A 19801227

Abstract (en)

[origin: US4449558A] A method and apparatus for trimming boards, wherein a first stage, a first mechanism initially fixes and cuts two positioning short end cuts for each board. These positioning short end cuts are then used for advancing the board into the corresponding cutting plane of a second mechanism for trimming the board. As a result, it is possible to take into account the natural growth of a tree (all trees become thinner towards the top) and produce the minimum of trimmed waste. Because the natural growth of a tree to a conical shape, the positioning end cuts of a board will frequently define two non-parallel cutting lines for the edges of the board. The trimming in the second mechanism can be performed by different tools, e.g. by saws or one or more milling cutters. If a milling cutter is used, the boards can also be positioned in such a way that the sloping edges of the board resulting from the substantially circular cross-section of a tree can be taken into account. i.e., an inclined trimming takes place, taking into account the natural shape of the board so that there is a minimum of waste in this trimming dimension. If two cutters are used, the two stepped milling tools can be arranged in such a way that the largest diameter portion of one cutter is associated with the smallest diameter portion of the other cutter. In this case, the cut profiles on the edges of two adjoining boards that are cut by the two cutters match one another and fit together, so that without further manipulation, gluing in a joint gluing installation is possible. The boards are transported through the trimming mechanism in the desired manner by a pair of stops, a slide and a pair of ejectors. These members function in such a way that the desired cutting quality and shape are obtained for the board, while producing minimum waste.

Abstract (de)

Zwei Positionierungspunkte (9,9; 10,10) werden ausgenutzt, um das Brett (5) in die Schnittebene vorzuschieben. Hierdurch wird der natürliche Wuchs eines Baumes berücksichtigt. Häufig legen die Positionierungspunkte zwei nicht parallele Schnittebenen für ein Brett fest. Die Besäumung kann durch unterschiedliche Werkzeuge (24, 25, 48, 41 und 43) durchgeführt werden. Wenn ein Fräser (48) eingesetzt wird, wird die Abschrägung des Brettes, bedingt durch den im wesentlichen kreisförmigen Querschnitt eines Baumes durch schräge Besäumung, berücksichtigt. Wenn zwei Fräser (41, 43) eingesetzt werden, passen die gefrästen Profile an den Brettern zueinander und ineinander, so daß ohne weitere Handhabung ein Verleimen in einer Fugenverleimanlage möglich ist. Durchgeführt wird der Transport der Bretter durch ein Anschlagpaar (15), einen Schieber (16) und ein Auswerferpaar (17), die so arbeiten, daß die gewünschte Schnittqualität und - form bei geringem Abfall erreicht wird.

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**B27B 5/04; B27B 31/06**

IPC 8 full level

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