

Title (en)

METHOD OF THERMOPLASTIC STICKING OF FLAT ELEMENTS

Title (de)

VERFAHREN ZUM THERMOPLASTISCHEN ANKLEBEN VON FLÄCHENELEMENTEN

Title (fr)

PROCEDE DE COLLAGE THERMOPLASTIQUE D'ELEMENTS PLATS

Publication

**EP 1409230 A1 20040421 (EN)**

Application

**EP 01960093 A 20010905**

Priority

- CZ 0100047 W 20010905
- CZ 20003249 A 20000906

Abstract (en)

[origin: WO0220250A1] The method of thermoplastic sticking of flat elements has the following features: The sticking does not take place in the straight line as it happens when sticking is carried out between rotating rollers of rolling machines (mills); the sticking takes place over the whole area, without having to subject the bonded sandwich to tension. The proposed design of thermoplastic sticking of materials gives rise to an opportunity of forming new types of products closely focused on the final characteristics required. In principle, this is the method of melting-on the whole area of the sticking thermoplastic interlayer of the sandwich formed, starting on the reverse side, in an appropriate time and thermal operating mode. Very important is the use of side stops preventing the greater compression of material than required and the impression of the set sticking "interlayer" into the material, which would impair the strength of the bond. The individual elements of the product (sandwich) are bonded by means of a fusible "interlayer" all over the area. Heat is delivered from the reverse side, and the sticking "interlayer" of a suitable weight is inlaid according to the characteristics of the elements bonded and requirements for the joint strength. The whole technological and operating process is closely connected with time and thermal modes. The input and subsequently output parameters required are attained by side stops of the "press ironer", the height setting of the parameters defines the target thickness of the final product.

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