

Title (en)

Method for manufacturing a hollow body of a machine for manufacturing and/or refining a sheet of material and hollow body

Title (de)

Verfahren zur Herstellung eines Hohlkörpers einer Maschine zur Herstellung und/oder Veredelung einer Materialbahn und Hohlkörper

Title (fr)

Procédé de fabrication d'un corps creux d'une machine destinée à la fabrication et/ou l'amélioration d'une bande de matériau et d'un corps creux

Publication

EP 1857587 B1 20130515 (DE)

Application

EP 07103510 A 20070305

Priority

DE 102006023834 A 20060520

Abstract (en)

[origin: EP1857587A1] The hollow section (1) is made from metal sheets (2-6) of thickness (d) which is preferably less than 12 mm. The sheets are precision-cut from plate material. They are subsequently welded together. They are mortised together. Sheet bulkheads (6) are included; these are connected to the sidewalls. They are provided with tenons (14) fitting corresponding mortice openings (15) in the sidewalls, where they are slot-welded in. The bulkheads, at right angles to the longitudinal axis, are spaced apart by 650-990 mm. In a variation, several are arranged at an angle to the longitudinal axis. They may zig-zagged in contact, making a form of internally-trussed angular framework. Adjacent sheets (2, 3) are reinforced by welding-in triangular corner sections. Mountings are attached to end faces of the traverse. The sheets are cut from plate material using a thermal process, especially laser-cutting. Alternatively a non-thermal process is used, such as water-jetting. Plates are straightened after precision cutting. The sheets may be subjected to permanent plastic deformation. A robot conducts the welding process. An independent claim IS INCLUDED FOR the hollow traverse.

IPC 8 full level

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