

Title (en)
CROSS HATCHING STRUCTURED MAST

Title (de)
MAST MIT KREUZSTRUKTUR

Title (fr)
MÂT À STRUCTURE CROISÉE

Publication
EP 2659074 A1 20131106 (EN)

Application
EP 11853099 A 20111123

Priority
• FI 20106374 A 20101228
• FI 2011051030 W 20111123

Abstract (en)
[origin: WO2012089908A1] The object of the invention is a cross hatching structured mast (3, 3'), the lower part (3') of which is connected to a base (4), and which is triangular or multi-angular in cross-section in the transverse direction perpendicular to the longitudinal direction, and the upper part of which mast (3, 3') is comprised of two or more modules (300) arranged on top of one another. The module (300) is comprised of panel-type modular elements (30, 31, 32, 33, 34 and 36) removably attached in conjunction with one another by mechanical fastening elements (50, 51), which include a corner panel (30) located in each corner of the module (300). The outer edges (30a) form the corners of the module (300) over the entire longitudinal distance of the module (300) and their inner edges (300b) extend over a distance towards the centre of the module (300). In conjunction with both sides of the outer edges (30a) of each corner panel (30) are connected two pivot panels (31), on the inner edges (31b) of which are arranged bending parts. They are bent with respect to the plane determined by the corner panel (30) into a bending angle (a) in opposite directions. Support panels (32) are connected in the longitudinal direction of the module (300) in conjunction with the first and/or second end of each bending part (31), whereupon the outer surfaces (32c) of the support panels (32) of two adjacent corners pass through the same plane. Elongated connecting panels (33) are connected at both ends (33a, 33b) to the corresponding support panels (32) of the respective two adjacent corners. The reinforcing elements (36) can be fitted in conjunction with the outer edge of each corner panel and the outer edge of each pivot panel.

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Citation (search report)
See references of WO 2012089908A1

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