

Title (en)
LATTICE CONSTRUCTION

Title (de)
GITTERKONSTRUKTION

Title (fr)
CONSTRUCTION EN TREILLIS

Publication
EP 3165689 A1 20170510 (EN)

Application
EP 16460069 A 20160919

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PL 41473315 A 20151109

Abstract (en)
The lattice constructions according to the invention basically consist of tubular elements, or the elements of other cross-section, i.e. of other profile, which are made of polymer composites. Four lengthwise pipes (1) are arranged next to each other, as a rule vertically, on the plan of a rectangle, in its corners. It affects the maximal resistance of the lattice construction cross-section to the deformations caused by wind or snow and the characteristic loads, resulting from the intended use and the manner in which the construction is used. The interior of pipes (1), or the elements corresponding to them, can be filled with polyurethane foam or polymer concrete. The lengthwise pipes (1) are connected to each other with the cross braces (2), which can also be in the form of tubular elements, made of polymer composites, similarly as the lengthwise pipes (1). Most preferably the lengthwise pipes (1) are connected to each other with the cross braces (2), in such a manner that each lengthwise pipe (1) is connected to two other, adjacent lengthwise pipes (1), but never with the lengthwise pipe (1) which is located diagonally in the projection of rectangle. The spacing of cross braces (2), the angle of their inclination in relation to the lengthwise pipes (1) and the manner of their arrangement can be various and are freely selected, and in any case they result from the intended use of the construction element and its parameters. The lattice construction made in such a manner forms the modular element (3).

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