

Title (en)  
STRUCTURE HAVING A CORE BAR

Title (de)  
STRUKTUR MIT EINER STOPFENSTANGE

Title (fr)  
STRUCTURE AYANT UNE BARRE D'ÂME

Publication  
**EP 2778311 A1 20140917 (EN)**

Application  
**EP 12845129 A 20121031**

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Abstract (en)  
The present disclosure relates to a structural member with a core bar which has good mechanical strength and quality properties compared to existing metallic structural members, significantly reduces manufacturing costs, enables easy construction of various curved building structures such as a dome-shaped building structure or an arch-shaped building structure without a truss structure or a formwork to be economically feasible and excellent in construction efficiency, and contributes to the protection of the global environment. The structural member includes: at least one elastic core bar formed in a bar shape; and an outer body or an outer cover into which the at least one core bar is inserted. The core bar is formed at least one of wood such as a bamboo strip or a composite bamboo bar, a synthetic resin material, a glass fiber composite material, and a carbon fiber composite material. The outer body or the outer cover is formed of at least one of a metallic material such as aluminum, a synthetic resin material, a glass fiber composite material, and a carbon fiber composite material.

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