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(54) Title (EN): A COMPOSITE STRUCTURE FOR DELIVERING ELECTRIC POWER

(54) Title (FR): STRUCTURE COMPOSITE POUR DISTRIBUER DE L'ÉNERGIE ÉLECTRIQUE

(57) Abstract:

(EN): A composite structure (10) for delivering electric power to an application requiring electric power comprising: a container (12) of a first material resistant to longitudinal and transverse bending forces imposed on the container (12) by the application; and a core (30) of a second material resistant to compression and shear loads for accommodating a plurality of electric cells (34) provided within said container (12) wherein the container (12) and the core (30) of the composite structure (10) together form a structural member having resistance to shear forces, compression forces, tension forces, torsional forces and longitudinal and transverse bending forces imposed on said structural member by the application.

(FR): Une structure composite (10) destinée à distribuer de l'énergie électrique à une application nécessitant de l'énergie électrique comprend : un contenant (12) d'un premier matériau résistant à des forces de flexion longitudinales et transversales imposées sur le contenant (12) par l'application ; et un noyau (30) d'un second matériau résistant à des charges de compression et de cisaillement pour recevoir une pluralité de cellules électriques (34) disposées à l'intérieur dudit contenant (12), le contenant (12) et le noyau (30) de la structure composite (10) formant ensemble un élément structurel présentant une résistance aux forces de cisaillement, aux forces de compression, aux forces de traction, aux forces de torsion et aux forces de flexion longitudinales et transversales imposées sur ledit élément structurel par l'application.

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