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(54) LEVERAGE SYSTEM FOR TENSIONING ARCHED STRUCTURES FABRIC

(57) The present invention concerns a new method of tensioning cover sheet through a leverage system.

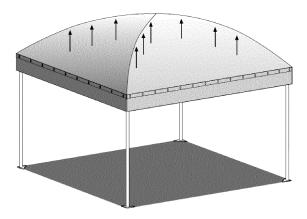




Fig 3

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Description

[0001] The current leverage system for tensioning arched structures' fabrics are complex and not effective. This is due to the fact that such structures, being characterized by a fixed frame/structure, require a tailored and shaped fabric already at the beginning of the manufacturing with the consequence of not being able to tension it at a later time directly on the frame/structure. Simply put the fabric must be designed from the outset reflecting the same size of the structure. The fact of having the same size of the structure/frame and of the fabric makes the assembly very difficult because the latter shall have to adapt to the fixed frame/structure.

[0002] The lever system for tensioning the fabrics for arched structures here explained is an innovative system that allows, despite the deficiencies explained above, to easily adjust the structure to the fabrics.

[0003] In this way, it is possible to tension in an optimal and uniform manner, the roof cover of arched structures, by means of a lever specially conceived.

[0004] More precisely, the present patent is characterized by a hinging system of rigid brackets and tensioning plates eccentrically articulated, the first welded on the lower end of the arches, the latter at the four corners of the roof beams (Fig. 1).

[0005] Such plate, in the rest position, allows the comfortable insertion of the covering fabric (Fig. 2). Subsequently, the eccentric movement of the tension plate against the rigid bracket, manually triggered by a hexagonal key lever, allows the lifting and the resulting optimal positioning and leverage of the four arches with respect to the covering fabric by determining a proper, uniform and flawless tension (Fig. 3).

Claims

- Leverage system for tensioning cover sheet for arched structures characterized by the fixing of rigid brackets and tensioning plates eccentrically articulated, the first welded on the lower end of the arches, the latter at the four corners of the roof beams;
- Leverage system for tensioning cover sheet for arched structures according to claim n. 1 characterized by the fact that, thanks to the triggering of the tensioning plate, a perfect adherence of the sheet to the structure is obtained;
- 3. Leverage system for tensioning cover sheet for arched structures according to claim n. 1 characterized by the fact that, thanks to the triggering of the tension plate, the physical effort of the operators during the installation of the sheets is minimized.

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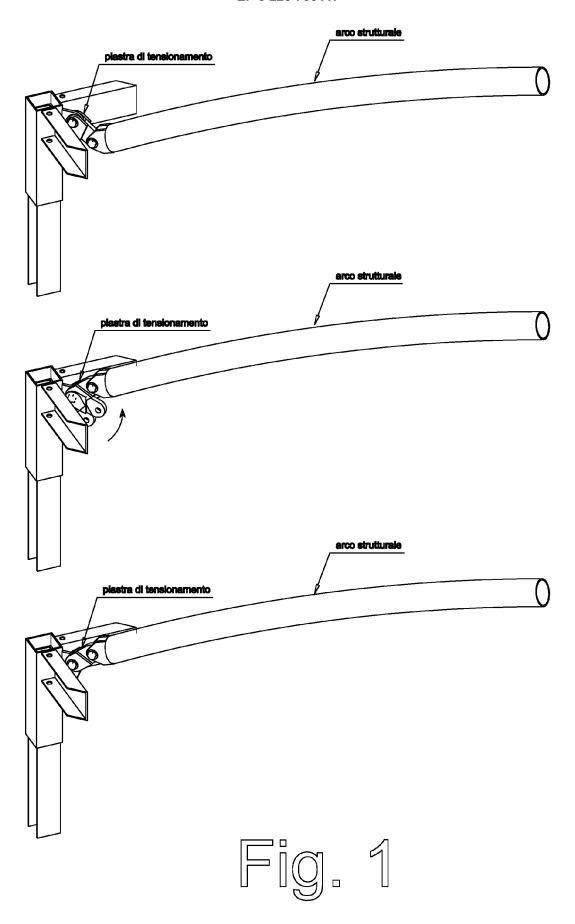
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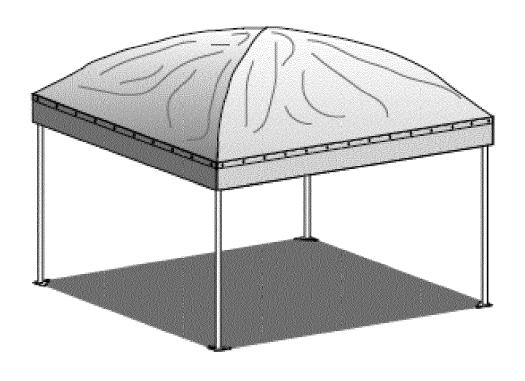
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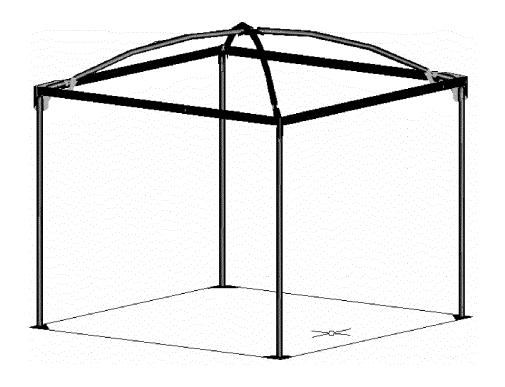
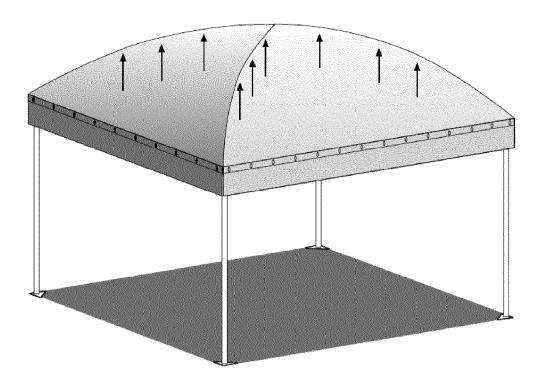


Fig 2

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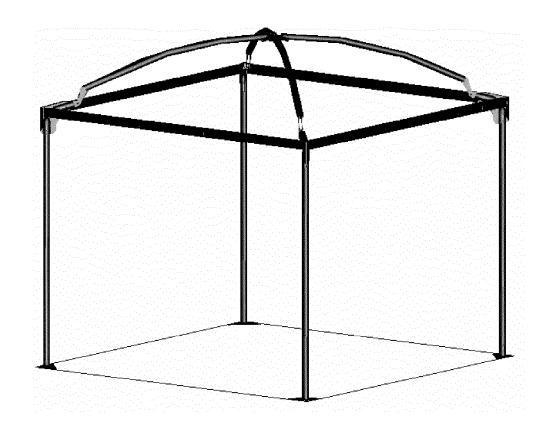


Fig 3



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Application Number EP 16 02 0395

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