

Title (en)
BUILDING STRUCTURE FOLDING AND UNFOLDING UNDER THE EFFECT OF THE WEIGHT OF THE SAME AND ALONG VERTICAL JOINT AXES

Title (de)
DURCH IHR EIGENGEWICHT UND UM VERTIKALE DREHACHSEN FALTBARE GEBÄUDEKONSTRUKTION

Title (fr)
STRUCTURE DE BATIMENT PLIABLE ET DEPLIABLE SOUS L'EFFET DE SON POIDS ET SELON DES AXES D'ARTICULATION VERTICAUX

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Application
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Abstract (en)
[origin: US2006248809A1] The invention relates to a structure for the constructions of folding and unfolding buildings, for example, horse stables but not limited thereto, of the type comprising frames made from welded profiles and covered with panels or sheets which may comprise doors, windows or ventilators, the whole assembly being covered by a roof. The structure is characterized in comprising, after deployment and installation, a parallelepiped volume with a rigid front facade (2) and rear facade (3) and two folding lateral walls. Each lateral wall (4, 5) comprises jointing means (19) on one central vertical joint axis (6) and on two secondary vertical joint axes (7 and 8) provided to either side of the central axis (6). Each lateral wall is thus composed of four rectangular leaves (20) of the same height and which can be folded by means of an accordion style of folding, characterized in that the distance between the two central axes (6) remains constant and that the structure comprises two fixing or anchoring means (12 and 13) on each lateral wall (4, 5), positioned on top of the structure and symmetrically with relation to the central axis (6). The method for folding or unfolding is characterized in that a lifting beam is used to raise the structure which folds or unfolds under the influence of the weight thereof, due to the force exerted by the weight on cables (27, 28) fixed between the lifting beam and the structure.

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