

Title (en)

Structure of multipurpose suspended roof arena capable of changing space volume and construction method thereof

Title (de)

Mehrzweckarena mit aufgehängtem Dach, fähig zur Raumvolumenänderung und ihr Bauverfahren

Title (fr)

Structure pour arène multiusage avec toiture suspendue capable de changer de volume et procédé pour sa construction

Publication

EP 0754821 A1 19970122 (EN)

Application

EP 95304964 A 19950717

Priority

EP 95304964 A 19950717

Abstract (en)

The arena has a movable stand (2) capable of changing the usable space in accordance with the type and scale of an event. The rectangular suspended-roof arena comprises a pair of outward convex-shaped stands (2) provided between both long sides of the rectangle to be movable along the long side of the rectangle. A stand (1) at the long side of the rectangle decreases in width stepwise towards the ends. The suspended roof comprises suspending members (15) extending between columns (12) whose bases are connected to a foundation (18) which bears the tension and vertical load of each suspending member (15). Each suspending member (15) comprises steel (16) which bears tension and laminated lumber (17) which surrounds the steel (16) and bears bending moment. <IMAGE>

IPC 1-7

E04H 3/14; **E04B 7/14**

IPC 8 full level

E04B 7/14 (2006.01); **E04H 3/14** (2006.01)

CPC (source: EP)

E04B 7/14 (2013.01); **E04H 3/14** (2013.01)

Citation (search report)

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