

Title (en)
Panel system

Title (de)
Panelsystem

Title (fr)
Système de panneaux

Publication
EP 1647647 A3 20070801 (EN)

Application
EP 05256321 A 20051011

Priority
GB 0422638 A 20041012

Abstract (en)
[origin: EP1647647A2] Fibre linear tensile elements 2 are strung between the floor slab 11 and the roof 12 of a building 1. Each fibre linear tensile element has a structural core 21 of polymeric fibres or filaments which can accommodate the tensioning of the fibre linear tensile element. The core 21 is covered by a sheath 22 of polymeric material. The fibre linear tensile elements 2 carry clamping devices 3 which enable glass panels 4 to be secured in position. Each clamping device 3 clamps in position the corners of four adjacent panels 4 at a particular connection node of the glass wall 80, as shown in Fig. 6. Gaskets 78 are applied to fill the inter-panel joints. Each fibre linear tensile element 2 may include a central optical fibre 23 for detecting any reduction in the tension during use. The tension of the fibre linear tensile elements 2 is monitored by a monitoring device 81 which can produce an appropriate alarm signal. Because of the polymeric structural nature of the fibre linear tensile elements 2, they will permit the curtain wall 80 to flex to some extent and their tensioning will only vary slightly in response to changes in ambient temperature. The polymeric material is also good at resisting surface corrosion. The fibre linear tensile elements 2 with the clamping devices 3 prefitted are delivered to site on pallets 71, so as to reduce the amount of work required on site. A laser level 74 may be used to ensure that the clamping devices 3 are positioned at their correct heights, before the glass panels 4 are fitted.

IPC 8 full level
E04B 2/88 (2006.01); **E04B 7/14** (2006.01); **E04D 3/14** (2006.01); **E06B 3/54** (2006.01)

CPC (source: EP US)
E04B 2/885 (2013.01 - EP US); **E04B 7/14** (2013.01 - EP US); **E04D 3/14** (2013.01 - EP US); **E06B 3/5427** (2013.01 - EP US); **E06B 3/5445** (2013.01 - EP US)

Citation (search report)
• [X] US 2003126813 A1 20030710 - LEYTES VLADIMIR S [US], et al
• [PX] CN 2677472 Y 20050209 - ZHUHAI JINYI GLASS ENGINEERING [CN]

Cited by
CN112113503A; CN111779163A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1647647 A2 20060419; **EP 1647647 A3 20070801**; **EP 1647647 B1 20081224**; AT E418657 T1 20090115; DE 602005011912 D1 20090205; GB 0422638 D0 20041110; US 2006075702 A1 20060413

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