

Title (en)

Improvements in or relating to joists and floor panels containing same

Title (de)

Verbesserungen bei oder in Zusammenhang mit Balken und Bodenplatten

Title (fr)

Améliorations de ou associées aux poutrelles et panneaux de plancher

Publication

**EP 1816271 A3 20080716 (EN)**

Application

**EP 07250300 A 20070125**

Priority

- GB 0602098 A 20060202
- GB 0606834 A 20060405

Abstract (en)

[origin: EP1816271A2] Width enlargement means is described, which is adapted to be attached to a joist end to adapt the latter for use with a joist hanger having a joist receiving socket with diverging side cheeks therein. When attached, the cross section shape of the end of the joist becomes trapezoidal so as to form a wedge. The inclined faces engage the diverging side cheeks of the socket thereby to provide lateral support for the joist end when fitted in the joist receiving socket. One form of enlargement means for a conventional rectangular cross section joist comprises triangular cross section fillets, which are adapted to be fitted to the opposite faces of the end of a the joist. Alternatively it may comprise a wedge shaped member having a central slot into which the end of the joist is fitted. Where the joist has an I-beam cross section, fillets are secured to opposite faces of the central web of the I-beam, or the end of the latter is fitted into a slot in a slotted wedge. Alternatively at least one metal structure is adapted to be fitted to one end of the joist, and the outer faces of the metal structure or structures are spaced by a greater distance in the region of the upper edge of the I-beam section than they are in the region of the lower edge thereof. Where the joist has an I-beam cross section the metal structure(s) may be attached to the web or the upper or lower rails, or all three. However formed the included angle between the inclined faces of the enlargement means whether formed by fillets or a wedge shaped member, or one or more metal structures, is substantially the same as, but not greater, than that between the diverging cheeks of the joist hanger socket in which the joist is to be received in use.

IPC 8 full level

**E04B 1/26** (2006.01)

CPC (source: EP US)

**E04B 5/12** (2013.01 - EP US); **E04B 1/2612** (2013.01 - EP US)

Citation (search report)

- [X] GB 223120 A 19241016 - ARISTIDE DANIEL
- [A] AT 181950 B 19550510 - KIRCHNER ADOLF

Cited by

GB2487382A; GB2487382B

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 RS

DOCDB simple family (publication)

**EP 1816271 A2 20070808; EP 1816271 A3 20080716**; US 2007193194 A1 20070823

DOCDB simple family (application)

**EP 07250300 A 20070125**; US 62772807 A 20070126