

Title (en)
Ceiling suspension system

Title (de)
Abgehängtes Deckensystem

Title (fr)
Système de plafond suspendu

Publication
EP 1703034 A1 20060920 (EN)

Application
EP 05447059 A 20050318

Priority
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Abstract (en)
The invention relates to a ceiling suspension system comprising a plurality of main runners (20), adjacent main runners being connected by means of at least one cross profile (10, 30) through a cooperating first connecting member (15) on the cross profile and second connecting member (25) on the main runner, the cross profile comprising at least one first heat expansion section (40), wherein the at least one first heat expansion section (40) is provided on at least one end part (39) of the first hollow member (14, 34), wherein the first heat expansion section (40) comprises a first protrusion (41) which protrudes in longitudinal direction from at least one end part (39) of the first hollow member (14, 34) and which is separate from the first web (11, 31) in longitudinal direction of the cross profile over at least part of the length of the first protrusion (41), wherein the first heat expansion section (40) also comprises a second cut-out (43) in a top face (16) of the first hollow member (14, 34) at the position where the protrusion is separate from the web, so as to provide an upright extending folding axis (45) at the position of the second cut-out, the first protrusion (41) being foldable with respect to the hollow member (14, 34) along the upright folding axis (45).

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CPC (source: EP)
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Citation (applicant)
• US 3722933 A 19730327 - NUTE E
• US 5347783 A 19940920 - FRECSKA SANDOR A [US], et al

Citation (search report)
• [XA] US 3290075 A 19661206 - JAHN MARTIN D
• [X] US 3496690 A 19700224 - JAHN REINHARDT H
• [A] US 4866900 A 19890919 - DUNN JAMES J [US]
• [A] US 3378976 A 19680423 - MEREDITH JR THOMAS C
• [A] DE 3824422 A1 19900125 - RICHTER SYSTEM GMBH & CO KG [DE]

Cited by
EP2085530A1; WO2023274716A1; CN115217258A; CN113356443A; US2015085474A1; EP4112834A1; CN109138256A; EP2085531A3; EP3862501A1; CN114876110A; WO2013173455A1; WO2020245067A1; WO2021156151A1; EP2085531A2

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