

Title (en)
SUSPENDED CEILING SYSTEM

Title (de)
SELBSTTRAGENDES DECKENSYSTEM

Title (fr)
SYSTÈME DE PLAFOND SUSPENDU

Publication
EP 3854957 A1 20210728 (EN)

Application
EP 20153845 A 20200127

Priority
EP 20153845 A 20200127

Abstract (en)
A suspended ceiling system comprising a polygon-shaped ceiling tile (10) and a grid of profiles (30) supporting the ceiling tile (10), the grid of profiles (30) defining a frame (31) in which the polygon-shaped ceiling tile (10) is arranged and supported by supporting flanges (32) of the grid of profiles (30). The polygon-shaped ceiling tile (10) comprises at front surface (11), a rear surface (12) and at least three side edges (13) extending between the front surface (11) and the rear surface (12), wherein a side edge portion associated with each side edge (13) comprises a top tongue (14), a bottom tongue (15), and a groove (16) extending along the side edge portion and separating the top tongue (14) and the bottom tongue (15). The top tongues (14) comprise engagement surfaces (18) resting on the supporting flanges (32) of the grid of profiles (30), and a distal end (19) of each top tongue (14) extends beyond a distal end (20) of the bottom tongue (15) such that a bottom section (21) of the polygon-shaped ceiling tile (10) comprising the bottom tongue (15) and the groove (16) of each side edge portion is insertable from above into the frame (31) defined by the grid of profiles (30).

IPC 8 full level
E04B 9/04 (2006.01); **E04B 9/24** (2006.01); **E04B 9/28** (2006.01)

CPC (source: EP US)
E04B 9/0435 (2013.01 - EP US); **E04B 9/241** (2013.01 - EP US); **E04B 9/28** (2013.01 - EP)

Citation (applicant)
EP 2902559 A1 20150805 - SAINT GOBAIN ECOPHON AB [SE]

Citation (search report)
• [XAI] DE 2457806 A1 19760610 - HOLZHAEUER ATEX W
• [XII] WO 2010129717 A1 20101111 - ABL IP HOLDING LLC [US]
• [I] US 2019292780 A1 20190926 - BAXTER NATHAN J [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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EP 3854957 A1 20210728; CA 3166467 A1 20210805; US 2023040670 A1 20230209; WO 2021151726 A1 20210805

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