

Title (en)

Safety guard rails for scaffolding, installation method and scaffolding obtained

Title (de)

Sicherheitsgeländer für Gerüste, Montageverfahren und so erhaltenes Gerüst

Title (fr)

Ensemble de lisse et sous-lisse solidaires pour échafaudage, procédé de montage et échafaudage obtenu

Publication

EP 2180117 A3 20131113 (FR)

Application

EP 09173020 A 20091014

Priority

FR 0805828 A 20081021

Abstract (en)

[origin: EP2180117A2] The assembly (1) has a rail (3) and a sub-rail (5) connected with respect to each other by bars (7). The rail and the sub-rail form branches of a rectangle parallelogram, and are fixed on upright vertical ladder planes of a scaffolding by their ends. The sub-rail comprises articulated external rods (23) in a plane of the parallelogram, where each rod is provided with a jaw hook (25) at an end. The hook fixes the rod on each of the ladder planes for reinforcing a connection of the assembly with respect to the ladder planes. Independent claims are also included for the following: (1) a method for assembling a safety rail and sub-rail assembly for a scaffolding (2) a method for disassembling the rail and sub-rail assembly in the scaffolding.

IPC 8 full level

E04G 5/14 (2006.01)

CPC (source: EP)

E04G 5/14 (2013.01); **E04G 5/147** (2013.01)

Citation (search report)

- [X] FR 2732706 A1 19961011 - COMABI CONST MAT BATIMENT [FR]
- [A] US 2195906 A 19400402 - UECKER REINHOLD A, et al
- [A] FR 2451431 A1 19801010 - MARTINEZ CLEMENT
- [A] FR 87340 E 19660722
- [A] US 2005061582 A1 20050324 - KARANOUH RACHED [US]

Cited by

DE102019114913A1; EP2586931A1; FR2981967A1; GB2475117A; GB2479681A; GB2479681B; GB2475117B; WO2024125693A1; EP3748107A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2180117 A2 20100428; EP 2180117 A3 20131113; EP 2180117 B1 20170614; DK 2180117 T3 20170828; ES 2635112 T3 20171002; FR 2937359 A1 20100423; FR 2937359 B1 20101210; PT 2180117 T 20170810

DOCDB simple family (application)

EP 09173020 A 20091014; DK 09173020 T 20091014; ES 09173020 T 20091014; FR 0805828 A 20081021; PT 09173020 T 20091014