

Title (en)

DESCENDING TYPE DOUBLE-SPAN MOVABLE SCAFFOLDING SYSTEM AND CONSTRUCTION METHOD

Title (de)

ABSTEIGENDES, BEWEGLICHES GERÜSTSYSTEM MIT ZWEI SPANNWEITEN UND BAUVERFAHREN

Title (fr)

SYSTÈME D'ÉCHAFAUDAGE MOBILE À DOUBLE PORTÉE DE TYPE DESCENDANT ET PROCÉDÉ DE CONSTRUCTION

Publication

EP 4112815 A4 20230823 (EN)

Application

EP 21927062 A 20211130

Priority

- CN 202110540620 A 20210518
- CN 2021134664 W 20211130

Abstract (en)

[origin: EP4112815A1] The present invention discloses a double-span movable formwork of lower bearing type and a construction method. The formwork includes a main girder, a main bridging beam, a bracket, a propelling flat wagon, a cross beam, an outer shuttering, a front hanging beam and a rear hanging beam. Two main girders are provided, the main girders are connected through a plurality of pairs of cross beams, and the cross beams are in group in pairs with bottom ends thereof connected by bolts. The main bridging beam is fixedly connected to either end of the main girder, three pairs of brackets are provided at bottoms of the main girder and of the main bridging beam at either end of the main girder respectively, for supporting the main girder and the main bridging beam, each pair of brackets are connected through a connecting plate, and the propelling flat wagon is slidably connected to the top of the respective bracket. According to the present invention, through the arrangement of a close jointing apparatus, after the two parts of the outer shuttering are closed by the hydraulic device on the propelling flat wagon, the two cross beams of the same pair can be simultaneously fixed, and the top of the close jointing apparatus is embedded into the joint of the outer shuttering, so that a gap at the joint cannot be communicated up and down, preventing continuous leakage and improving safety.

IPC 8 full level

E01D 21/00 (2006.01); **E01D 2/04** (2006.01)

CPC (source: CN EP KR)

E01D 2/04 (2013.01 - CN); **E01D 19/106** (2013.01 - KR); **E01D 21/00** (2013.01 - CN EP KR); **E01D 2/04** (2013.01 - EP)

Citation (search report)

No further relevant documents disclosed

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)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4112815 A1 20230104; **EP 4112815 A4 20230823**; AU 2021435256 A1 20221208; AU 2021435256 B2 20240104; CN 113047152 A 20210629; CN 113047152 B 20221011; KR 102637048 B1 20240214; KR 20220156797 A 20221128; WO 2022242103 A1 20221124; ZA 202209736 B 20221130

DOCDB simple family (application)

EP 21927062 A 20211130; AU 2021435256 A 20211130; CN 202110540620 A 20210518; CN 2021134664 W 20211130; KR 20227015565 A 20211130; ZA 202209736 A 20220831