Title (en)
METHOD AND SYSTEM FOR TENSIONING A HYPERSTATIC SYSTEM

Title (de)
VERFAHREN UND SYSTEM ZUR SPANNUNG EINES HYPERSTATISCHEN SYSTEMS

Title (fr)
PROCÉDÉ ET SYSTÈME DE MISE EN TENSION D'UN SYSTÈME HYPERSTATIQUE

Publication
EP 4158189 A1 20230405 (FR)

Application
EP 21732434 A 20210506

Priority
- FR 2005466 A 20200525
- FR 2021050781 W 20210506

Abstract (en)
[origin: WO2021240089A1] The invention relates to a method and system for tensioning a hyperstatic system (1) comprising two structures connected to each other, the method comprising: a step a) consisting of connecting, by means of at least one non-adjustable tendon (6) and at least one adjustable tendon (8) which is formed by a tendon coupled to a cylinder (8a) in an initially retracted position, an upper structure (2) to a lower structure (4) which is positioned below the upper structure while maintaining zero tension in the tendons; a step b) consisting of applying a force to the upper structure and/or the lower structure in order to tension each adjustable tendon and to deploy the respective cylinder thereof, the tension of each non-adjustable tendon remaining at zero; and a step c) consisting of progressively increasing the force until the tension of each non-adjustable tendon reaches a threshold value which brings about a load transfer from the lower structure to the upper structure so as to allow the lower structure to be supported by the upper structure.

IPC 8 full level
F03D 13/25 (2016.01); **B63B 35/44** (2006.01); **B63B 77/10** (2020.01)

CPC (source: EP KR US)
B63B 35/44 (2013.01 - EP KR US); **B63B 77/10** (2020.01 - EP KR US); **F03D 13/25** (2016.05 - EP KR US);
B63B 2035/446 (2013.01 - EP KR US); B63B 2241/08 (2013.01 - EP KR US); B63B 2241/12 (2013.01 - EP KR US);
F05B 2240/93 (2013.01 - KR US); F05B 2240/95 (2013.01 - KR US); Y02E 10/72 (2013.01 - EP KR); Y02E 10/727 (2013.01 - EP KR)

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)
FR 3110540 A1 20211126; **FR 3110540 B1 20230210**; AU 2021281590 A1 20221124; AU 2021281590 B2 20240404;
BR 112022021507 A2 20221213; EP 4158189 A1 20230405; KR 20230002673 A 20230105; MX 2022014815 A 20230118;
US 2023242223 A1 20230803; WO 2021240089 A1 20211202

DOCDB simple family (application)
FR 2005466 A 20200525; AU 2021281590 A 20210506; BR 112022021507 A 20210506; EP 21732434 A 20210506;
FR 2021050781 W 20210506; KR 20227039541 A 20210506; MX 2022014815 A 20210506; US 202117927467 A 20210506