

Title (en)

A SYSTEM FOR PRE-TENSIONING A JOINT COMPRISING A NUMBER OF THREADED ELEMENTS

Title (de)

SYSTEM ZUR VORSPANNUNG EINER VERBINDUNG MIT EINER ANZAHL VON GEWINDEELEMENTEN

Title (fr)

SYSTÈME DE PRÉ-TENSION D'UN RACCORD COMPRENANT UN CERTAIN NOMBRE D'ÉLÉMENTS FILETÉS

Publication

EP 3389929 B1 20221102 (EN)

Application

EP 16809814 A 20161213

Priority

- SE 1551660 A 20151216
- EP 2016080804 W 20161213

Abstract (en)

[origin: WO2017102731A1] A system for pre-tensioning a joint (13) including two or more threaded fasteners (11a – c) by a synchronized tightening of the threaded fasteners, comprising two or more torque delivering power wrenches (10a – c) and at least one operation control unit (18) communicating with the power wrenches for control of the operation of each one of the power wrenches, wherein the power wrenches are manually supported battery powered power wrenches each having a wireless communication module, and that the operation control unit comprises a wireless communication module (24) for communicating with the wireless communication modules (16a – c) of the power wrenches to thereby receive actual operation data from each power wrench and to deliver relevant operation data to each power wrenches to adapt the tightening operation of each power wrench to the actual tightening status of the other power wrench or wrenches to obtain a synchronous tightening of the fasteners and an even pre-tensioning of the joint.

IPC 8 full level

B25B 23/147 (2006.01)

CPC (source: EP KR)

B25B 23/147 (2013.01 - EP KR)

Citation (examination)

- US 2013047408 A1 20130228 - KIBBLEWHITE IAN E [US]
- US 3965778 A 19760629 - ASPERS ARTHUR J, et al
- US 4081037 A 19780328 - JONSSON GREGG N
- EP 1902817 A2 20080326 - COOPER POWER TOOLS GMBH & CO O [DE]
- EP 2421679 A2 20120229 - HYTORC DIVISION UNEX CORP [US]
- WO 2013063507 A1 20130502 - MILWAUKEE ELECTRIC TOOL CORP [US]

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

DOCDB simple family (publication)

WO 2017102731 A1 20170622; CN 108367417 A 20180803; CN 108367417 B 20200922; EP 3389929 A1 20181024; EP 3389929 B1 20221102; KR 102573443 B1 20230901; KR 20180094929 A 20180824

DOCDB simple family (application)

EP 2016080804 W 20161213; CN 201680074210 A 20161213; EP 16809814 A 20161213; KR 20187017933 A 20161213