

Search history

Search 1: FT=(mezzanine and joist and mechanism and pipe) (Results 2)

Title: WELDLESS BUILDING STRUCTURES

Abstract: Source: US2011203217A [EN] A building structure including a first building member and a second building member may be connected by a plurality of fasteners, each fastener having a head, a threaded portion having a through hardness of between HRB 70 and HRC 40, a thread-forming portion of at least HRC 50 hardness enabling the fastener to form threads in at least the second steel building member, and a fluted lead portion of at least HRC 50 hardness with a nominal diameter between 70 and 95 percent of major diameter, such that the fastener is capable of providing a ratio of strip torque to thread-forming torque of at least 3.0 and a ratio of strip torque to drive torque greater than 6.0 when the second steel building member having a thickness of 0.25 inch and the fluted lead portion having at least one diameter within nominal diameter between 80 and 98 percent of major diameter.

Classifications:

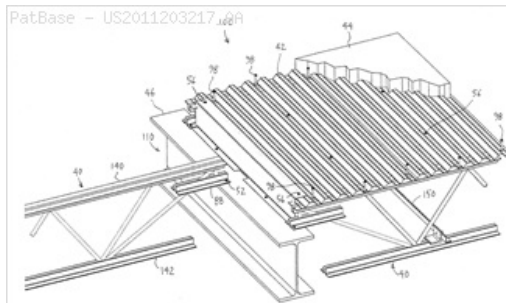
International (IPC 8-9): E04B1/18 E04B1/19 E04B1/24 E04B1/348 E04B1/38 E04B1/41 E04B1/58 E04B5/40 E04B7/02 E04C3/11 E04G21/14 F16B25/00 F16B25/02 F16B25/10 F16B33/02 F16B35/00 F16B35/04 F16B5/02 F16B7/18 (Advanced/Invention); F16B25/00 (Core/Invention)

CPC: E04B1/185 E04B1/1903 E04C3/40 E04C2003/026 E04C2003/0491 E04B1/38 E04B7/024 E04B2001/2439 E04B1/24 E04B5/40 E04B2001/2415 E04B2001/2418 E04B2001/2448 E04B2001/2454 E04B2001/2457 E04B2001/2463 E04B2001/2472 E04B2001/2484 E04B2001/2487 E04B2001/2496 E04C3/11 F16B7/18 F16B7/185 F16B25/0021 F16B25/0057 F16B25/0063 F16B25/0084 F16B25/10 E04B2001/2445 E04B2001/249 F16B7/182 F16B25/0052 E04B1/4157 F16B25/103 F16B25/106

European: E04B1/24 E04B5/40 E04C3/11 F16B25/00C2

F16B25/00G1C F16B25/00G1C1 F16B25/00G3 F16B25/10B F16B7/18 F16B7/18C P04B1/24B4 P04B1/24B40 P04B1/24B42 P04B1/24B5 P04B1/24B50 P04B1/24B52 P04B1/24C3 P04B1/24E P04B1/24P P04B1/24W

US: 1/1 411/386 411/387.1 411/387.4 411/387.400S 52/655.1 52/705 52/705P 52/741.1 52/745.21 52/745.210S



Family:

Publication number	Publication date	Application number	Application date
AU2011217880 AA	20110825	AU20110217880	20110219
AU2011217880 BB	20160714	AU20110217880	20110219
AU2016231544 AA	20161013	AU20160231544	20160921
AU2016231544 BB	20171123	AU20160231544	20160921
AU2017248574 AA	20171109	AU20170248574	20171020
CA2784843 AA	20120615	CA20112784843	20110219
CA2784843 C	20161018	CA20112784843	20110219
MX2012009571 A1	20140227	MX20120009571	20110219
MX345851 B	20170220	MX20140004310	20110219
US2011203217 AA	20110825	US20110031181	20110218
US2013192159 AA	20130801	US20130798956	20130313
US2013340382 AA	20131226	US20130012526	20130828
US2014075875 AA	20140320	US20130022131	20130909
US2016252126 AA	20160901	US20160988314	20160105
US2018073541 AA	20180315	US20170722509	20171002
US8529178 BB	20130910	US20110031181	20110218
US8636456 BB	20140128	US20130798956	20130313
US9004835 BB	20150414	US20130022131	20130909
US9267527 BB	20160223	US20130012526	20130828
US9797430 BB	20171024	US20160988314	20160105
WO11103522 A2	20110825	WO2011US25568	20110219
WO11103522 A3	20111229	WO2011US25568	20110219
WO15035374 A1	20150312	WO2014US54751	20140909

Priority:

US20100306309P 20100219	US20110031181 20110218	AU20110217880 20110219
WO2011US25568 20110219	US20130798956 20130313	US20130012526 20130828
US20130022131 20130909	US20160988314 20160105	AU20160231544 20160921
US20170722509 20171002	AU20170248574 20171020	

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MECANISMO DE VIGUETAS EN TUBERIA ESTRUCTURAL DE LAMINA DELGADA EN SECCION COMPUESTA **Mechanism**
of beams in foil in structural composite **pipe** section (Machine translation)

Classifications:

International (IPC 8-9): E04B1/00 E04B1/18 E04B1/21 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO20170011744 U1	20180131	CO20170011744U	20171117

Priority:

CO20170011744U 20171117

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