

CPC**COOPERATIVE PATENT CLASSIFICATION****F16M****FRAMES, CASINGS, OR BEDS OF ENGINES OR OTHER MACHINES OR APPARATUS NOT SPECIFIC TO AN ENGINE, MACHINE, OR APPARATUS PROVIDED FOR ELSEWHERE; STANDS OR SUPPORTS****NOTE**

Attention is drawn to the following places:

[B21B 31/02](#) Metal-rolling stand frames

[G01D 11/30](#) Supports specially adapted for indicating or recording instruments.

F16M 1/00**Frames or casings of engines, machines or apparatus; Frames serving as machinery beds****F16M 1/02**

- for reciprocating engines or similar machines

F16M 1/021

- • for housing crankshafts

F16M 1/022

- • • of tunnel type, i.e. wherein the crankshaft can only be introduced axially ([for engines or machines with star-shaped cylinder arrangement F16M 1/023](#))

F16M 1/023

- • • specially adapted for engines or machines with star-shaped cylinder arrangement

F16M 1/024

- • • facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods

F16M 1/025

- • • Assembling bearings in casings, e.g. having anchor bolts

F16M 1/026

- • for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings

F16M 1/04

- for rotary engines or similar machines

F16M 1/08

- characterised by being built-up of sheet material or welded parts

F16M 3/00**Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets ([construction of vehicles in general B60 - B62](#))****F16M 5/00****Engine beds, i.e. means for supporting engines or machines on foundations****F16M 7/00****Details of attaching or adjusting engine beds, frames, or supporting-legs on foundation or base; Attaching non-moving engine parts, e.g. cylinder blocks ([elastic or equivalent mounting for absorbing vibrations F16F, especially F16F 15/04](#))****F16M 9/00****Special layout of foundations with respect to machinery to be supported ([foundations for machinery E02D 27/44](#))**

F16M 11/00	Stands or trestles as supports for apparatus or articles placed thereon {Stands for scientific apparatus such as gravitational force meters} (without heads F16K 13/00 ; easels or stands for blackboard or the like A47B 97/04 ; show-stands A47F 7/00 ; for workmen E04G 1/32 ; {sockets or holders for poles or posts E04H 12/22 } ; supporting, suspending for lighting devices F21V 21/00 ; special modifications for particular apparatus or articles, see the appropriate subclasses)
F16M 11/02	<ul style="list-style-type: none"> • Heads
F16M 11/04	<ul style="list-style-type: none"> • • Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
F16M 11/041	<ul style="list-style-type: none"> • • • {Allowing quick release of the apparatus} <p><u>WARNING</u></p> <p>This group is not complete pending reclassification; see also group F16M 11/04</p>
F16M 11/043	<ul style="list-style-type: none"> • • • {Allowing translations} <p><u>WARNING</u></p> <p>This group is not complete pending reclassification; see also group F16M 11/04</p>
F16M 11/045	<ul style="list-style-type: none"> • • • • {adapted to left-right translation movement} <p><u>WARNING</u></p> <p>This group is not complete pending reclassification; see also group F16M 11/04</p>
F16M 11/046	<ul style="list-style-type: none"> • • • • {adapted to upward-downward translation movement} <p><u>WARNING</u></p> <p>This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/24</p>
F16M 11/048	<ul style="list-style-type: none"> • • • • {adapted to forward-backward translation movement} <p><u>WARNING</u></p> <p>This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/38</p>
F16M 11/06	<ul style="list-style-type: none"> • • • allowing pivoting
F16M 11/08	<ul style="list-style-type: none"> • • • • around a vertical axis, {e.g. panoramic heads (F16M 11/12 takes precedence)}
F16M 11/10	<ul style="list-style-type: none"> • • • • around a horizontal axis {(F16M 11/12 takes precedence)}
F16M 11/105	<ul style="list-style-type: none"> • • • • • {the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation} <p><u>WARNING</u></p> <p>Not complete; see also F16M 11/10</p>
F16M 11/12	<ul style="list-style-type: none"> • • • • in more than one direction

- F16M 11/121 {constituted of several dependent joints}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/123 {the axis of rotation intersecting in a single point, e.g. by using gimbals}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/125 {for tilting and rolling ([F16M 11/14](#) takes precedence)}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/126 {for tilting and panning ([F16M 11/14](#) takes precedence)}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/128 {for panning and rolling ([F16M 11/14](#) takes precedence)}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/14 with ball-joint (ball-jointed hinges [F16C 11/06](#) {adjustable mountings employing universal joints for lighting devices [F21V 21/26](#) - [F21V 21/30](#)})
- F16M 11/16 . . Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof
- F16M 11/18 . . with mechanism for moving the apparatus relatively to the stand
- F16M 11/20 . Undercarriages with or without wheels
- F16M 11/2007 . . {comprising means allowing pivoting adjustment}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/06](#), [F16M 11/08](#), [F16M 11/10](#), [F16M 11/12](#), [F16M 11/14](#) depending on the type of movement allowed
- F16M 11/2014 . . . {around a vertical axis ([F16M 11/2035](#) takes precedence)}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/08](#)

- F16M 11/2021 . . . {around a horizontal axis ([F16M 11/2035](#) takes precedence)}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/10](#)
- F16M 11/2028 {for rolling, i.e. for creating a landscape-portrait rotation}
- WARNING**
- Not complete; see also [F16M 11/10](#)
- F16M 11/2035 . . . {in more than one direction}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/2042 {constituted of several dependent joints}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/205 {the axis of rotation intersecting in a single point e.g. gimbals}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)]
- F16M 11/2057 {for tilting and rolling ([F16M 11/2078](#) takes precedence)}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/2064 {for tilting and panning ([F16M 11/2078](#) takes precedence)}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)
- F16M 11/2071 {for panning and rolling ([F16M 11/2078](#) takes precedence)}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/12](#)]
- F16M 11/2078 {with ball-joint (ball-jointed hinges [F16C 11/06](#))}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/14](#)]

- F16M 11/2085 . . {comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage}
WARNING
 This group is not complete pending reclassification; see also group [F16M 11/04](#)
- F16M 11/2092 . . {comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage}
WARNING
 This group is not complete pending reclassification; see also group [F16M 11/04](#) and [F16M 11/38](#)
- F16M 11/22 . . with approximately constant height, e.g. with constant length of column or of legs ([F16M 11/42](#) takes precedence)
- F16M 11/24 . . changeable in height or length of legs, also for transport only, {e.g. by means of tubes screwed into each other} ([F16M 11/42](#) takes precedence)
- F16M 11/242 . . . {by spreading of the legs ([F16M 11/32](#) takes precedence)}
- WARNING**
 This group is not complete pending reclassification; see also group [F16M 11/24](#) or [F16M 11/32](#)]
- F16M 11/245 {Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs [F16M 11/34](#))}
- WARNING**
 this group is not complete pending a reorganisation, see also [F16M 11/24](#) and [F16M 11/34](#)
- F16M 11/247 {Members preventing slipping of the feet (for supports with three or more telescoping legs [F16M 11/36](#))}
- WARNING**
 this group is not complete pending a reorganisation, see also [F16M 11/24](#) and [F16M 11/36](#)
- F16M 11/26 . . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only [F16B 7/10](#))
- F16M 11/28 Undercarriages for supports with one single telescoping pillar
- F16M 11/30 with co-moving side-struts
- F16M 11/32 Undercarriages for supports with three or more telescoping legs
- F16M 11/34 Members limiting spreading of legs, {e.g. "umbrella legs"}
- F16M 11/36 Members preventing slipping of the feet
- F16M 11/38 . . . by folding, {e.g. pivoting or scissors tong mechanisms}
- F16M 11/40 . . . by means of coilable or bendable legs {or spiral shaped legs}
- F16M 11/42 . with arrangement for propelling the support {stands on wheels}

F16M 11/425	<ul style="list-style-type: none"> . . {along guiding means} <p>WARNING</p> <p>This group is not complete pending reclassification; see also group F16M 11/42]</p>
F16M 13/00	<p>Other supports for positioning apparatus or articles (heads thereof F16M 11/02; {undercarriages thereof F16M 11/20} ; adapted to be stuck in the ground A45F 3/44; {sockets or holders for poles or posts E04H 12/22}); Means for steadying hand-held apparatus or articles {(supports for measuring instruments G01D 11/30; supports for casings of remote control switching devices H01H 9/025)}</p>
F16M 13/005	<ul style="list-style-type: none"> . {integral with the apparatus or articles to be supported} <p>WARNING</p> <p>This group is not complete pending reclassification; see also group F16M 13/00</p>
F16M 13/02	<ul style="list-style-type: none"> . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
F16M 13/022	<ul style="list-style-type: none"> . . {repositionable} <p>WARNING</p> <p>This group is not complete pending reclassification; see also group F16M 13/02</p>
F16M 13/025	<ul style="list-style-type: none"> . . {Corner supports} <p>WARNING</p> <p>This group is not complete pending reclassification; see also group F16M 13/02]</p>
F16M 13/027	<ul style="list-style-type: none"> . . {Ceiling supports} <p>WARNING</p> <p>this group is not complete pending a reorganisation, see also F16M 13/02</p>
F16M 13/04	<ul style="list-style-type: none"> . for supporting on, or holding steady relative to, a person, e.g. by chains, {e.g. rifle butt or pistol grip supports, supports attached to the chest or head (apparatus or arrangements for taking photographs or for projecting or viewing them G03B)}
F16M 13/06	<ul style="list-style-type: none"> . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick
F16M 13/08	<ul style="list-style-type: none"> . . for use as a walking-cane
F16M 2200/00	<p>Details of stands or supports</p>
F16M 2200/02	<ul style="list-style-type: none"> . Locking means
F16M 2200/021	<ul style="list-style-type: none"> . . for rotational movement
F16M 2200/022	<ul style="list-style-type: none"> . . . by friction
F16M 2200/024	<ul style="list-style-type: none"> . . . by positive interaction, e.g. male-female connections
F16M 2200/025	<ul style="list-style-type: none"> . . for translational movement
F16M 2200/027	<ul style="list-style-type: none"> . . . by friction

- F16M 2200/028 . . . by positive interaction, e.g. male-female connections
- F16M 2200/04 . Balancing means
- F16M 2200/041 . . for balancing rotational movement of the head
- F16M 2200/042 . . . for panning movement
- F16M 2200/044 . . for balancing rotational movement of the undercarriage
- F16M 2200/045 . . . for panning movement
- F16M 2200/047 . . for balancing translational movement of the head
- F16M 2200/048 . . for balancing translational movement of the undercarriage
- F16M 2200/06 . Arms
- F16M 2200/061 . . Scissors arms
- F16M 2200/063 . . Parallelogram arms
- F16M 2200/065 . . with a special structure, e.g. reinforced or adapted for space reduction
- F16M 2200/066 . . being part of the head
- F16M 2200/068 . . being part of the undercarriage
- F16M 2200/08 . Foot or support base