

**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 to 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**      .    Heads
- F16M 11/04**      .    .    Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
- F16M 11/041**      .    .    .    {Allowing quick release of the apparatus}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/04](#)
- F16M 11/043**      .    .    .    {Allowing translations}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/04](#)
- F16M 11/045**      .    .    .    .    {adapted to left-right translation movement}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/04](#)
- F16M 11/046**      .    .    .    .    {adapted to upward-downward translation movement}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/04](#) and [F16M 11/24](#)
- F16M 11/048**      .    .    .    .    {adapted to forward-backward translation movement}
- WARNING**
- This group is not complete pending reclassification; see also group [F16M 11/04](#) and [F16M 11/38](#)
- F16M 11/06**      .    .    .    allowing pivoting
- F16M 11/08**      .    .    .    .    around a vertical axis, {e.g. panoramic heads ([F16M 11/12](#) takes precedence)}
- F16M 11/10**      .    .    .    .    around a horizontal axis {([F16M 11/12](#) takes precedence)}
- F16M 11/105**      .    .    .    .    .    {the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation}
- WARNING**
- Not complete; see also [F16M 11/10](#)
- F16M 11/12**      .    .    .    .    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](#) to [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 [N C1202]
- 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"> <li>. . {along guiding means}</li> </ul> <p><b>WARNING</b></p> <p>This group is not complete pending reclassification; see also group <a href="#">F16M 11/42</a> ]</p>
<b>F16M 13/00</b>	<p><b>Other supports for positioning apparatus or articles</b> (heads thereof <a href="#">F16M 11/02</a>; {undercarriages thereof <a href="#">F16M 11/20</a>} ; adapted to be stuck in the ground <a href="#">A45F 3/44</a>; {sockets or holders for poles or posts <a href="#">E04H 12/22</a>}); <b>Means for steadying hand-held apparatus or articles</b> {(supports for measuring instruments <a href="#">G01D 11/30</a>; supports for casings of remote control switching devices <a href="#">H01H 9/025</a>)}</p>
F16M 13/005	<ul style="list-style-type: none"> <li>. {integral with the apparatus or articles to be supported}</li> </ul> <p><b>WARNING</b></p> <p>This group is not complete pending reclassification; see also group <a href="#">F16M 13/00</a></p>
F16M 13/02	<ul style="list-style-type: none"> <li>. for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle</li> </ul>
F16M 13/022	<ul style="list-style-type: none"> <li>. . {repositionable}</li> </ul> <p><b>WARNING</b></p> <p>This group is not complete pending reclassification; see also group <a href="#">F16M 13/02</a></p>
F16M 13/025	<ul style="list-style-type: none"> <li>. . {Corner supports}</li> </ul> <p><b>WARNING</b></p> <p>This group is not complete pending reclassification; see also group <a href="#">F16M 13/02</a> ]</p>
F16M 13/027	<ul style="list-style-type: none"> <li>. . {Ceiling supports}</li> </ul> <p><b>WARNING</b></p> <p>this group is not complete pending a reorganisation, see also <a href="#">F16M 13/02</a></p>
F16M 13/04	<ul style="list-style-type: none"> <li>. 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 <a href="#">G03B</a>)}</li> </ul>
F16M 13/06	<ul style="list-style-type: none"> <li>. also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick</li> </ul>
F16M 13/08	<ul style="list-style-type: none"> <li>. . for use as a walking-cane</li> </ul>
<b>F16M 2200/00</b>	<p><b>Details of stands or supports</b></p>
F16M 2200/02	<ul style="list-style-type: none"> <li>. Locking means</li> </ul>
F16M 2200/021	<ul style="list-style-type: none"> <li>. . for rotational movement</li> </ul>
F16M 2200/022	<ul style="list-style-type: none"> <li>. . . by friction</li> </ul>
F16M 2200/024	<ul style="list-style-type: none"> <li>. . . by positive interaction, e.g. male-female connections</li> </ul>
F16M 2200/025	<ul style="list-style-type: none"> <li>. . for translational movement</li> </ul>
F16M 2200/027	<ul style="list-style-type: none"> <li>. . . by friction</li> </ul>

- 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