

**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 . . { along guiding means }

**WARNING**

This group is not complete pending reclassification; see also group [F16M 11/42](#) ]

**F16M 13/00** **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](#))}

F16M 13/005 . { integral with the apparatus or articles to be supported }

**WARNING**

This group is not complete pending reclassification; see also group [F16M 13/00](#)

F16M 13/02 . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle

F16M 13/022      ..      { repositionable }

**WARNING**

This group is not complete pending reclassification; see also group [F16M 13/02](#)

F16M 13/025      ..      { Corner supports }

**WARNING**

This group is not complete pending reclassification; see also group [F16M 13/02](#) ]

F16M 13/027      ..      { Ceiling supports }

**WARNING**

this group is not complete pending a reorganisation, see also [F16M 13/02](#)

F16M 13/04      .      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      .      also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick

F16M 13/08      ..      for use as a walking-cane

**F16M 2200/00      Details of stands or supports**

F16M 2200/02      .      Locking means

F16M 2200/021      ..      for rotational movement

F16M 2200/022      ...      by friction

F16M 2200/024      ...      by positive interaction, e.g. male-female connections

F16M 2200/025      ..      for translational movement

F16M 2200/027      ...      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