

**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 [F16K 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