

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

F16M 11/2021
(continued)

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

F16M 11/2085
(continued)

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