

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

ENGINEERING IN GENERAL

F16 ENGINEERING ELEMENTS AND UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS; THERMAL INSULATION IN GENERAL

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.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Frames or casings of engines, machines or apparatus; Frames serving as machinery beds	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 blackboards 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)
1/02	. for reciprocating engines or similar machines	11/02	. Heads
1/021	. . for housing crankshafts	11/04	. . Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
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)	11/041	. . . {Allowing quick release of the apparatus}
1/023	. . . specially adapted for engines or machines with star-shaped cylinder arrangement		WARNING
1/024	. . . facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods		This group is not complete pending reclassification; see also group F16M 11/04
1/025	. . . Assembling bearings in casings, e.g. having anchor bolts	11/043	. . . {Allowing translations}
1/026	. . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings		WARNING
1/04	. for rotary engines or similar machines		This group is not complete pending reclassification; see also group F16M 11/04
1/08	. characterised by being built-up of sheet material or welded parts	11/045 {adapted to left-right translation movement}
3/00	Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general B60 - B62)		WARNING
5/00	Engine beds, i.e. means for supporting engines or machines on foundations		This group is not complete pending reclassification; see also group F16M 11/04
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)		WARNING
9/00	Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44)		This group is not complete pending reclassification; see also group F16M 11/04

- 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](#)
- 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](#)
- 11/06 . . . allowing pivoting
- 11/08 around a vertical axis {, e.g. panoramic heads ([F16M 11/12](#) takes precedence)}
- 11/10 around a horizontal axis {([F16M 11/12](#) takes precedence)}
- 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](#)
- 11/12 in more than one direction
- 11/121 {constituted of several dependent joints}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)})
- 11/16 . . Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof
- 11/18 . . with mechanism for moving the apparatus relatively to the stand
- 11/20 . Undercarriages with or without wheels
- 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
- 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](#)
- 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](#)
- 11/2028 {for rolling, i.e. for creating a landscape-portrait rotation}
WARNING
Not complete; see also [F16M 11/10](#)
- 11/2035 . . . {in more than one direction}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- 11/2042 {constituted of several dependent joints}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/12](#)
- 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](#)
- 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](#)

- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 11/22 . . with approximately constant height, e.g. with constant length of column or of legs ([F16M 11/42](#) takes precedence)
- 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)
- 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](#)
- 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](#)
- 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](#)
- 11/26 . . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only [F16B 7/10](#))
- 11/28 Undercarriages for supports with one single telescoping pillar
- 11/30 with co-moving side-struts
- 11/32 Undercarriages for supports with three or more telescoping legs
- 11/34 Members limiting spreading of legs {, e.g. "umbrella legs"}
- 11/36 Members preventing slipping of the feet
- 11/38 . . . by folding {, e.g. pivoting or scissors tong mechanisms}
- 11/40 . . . by means of coilable or bendable legs {or spiral shaped legs}
- 11/42 . with arrangement for propelling the support {stands on wheels}
- 11/425 . . {along guiding means}
WARNING
This group is not complete pending reclassification; see also group [F16M 11/42](#)
- 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](#))}**
- 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](#)
- 13/02 . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
- 13/022 . . {repositionable}
WARNING
This group is not complete pending reclassification; see also group [F16M 13/02](#)
- 13/025 . . {Corner supports}
WARNING
This group is not complete pending reclassification; see also group [F16M 13/02](#)
- 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)}
- 13/06 . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick
- 13/08 . . for use as a walking-cane

2200/00 Details of stands or supports

- 2200/02 . Locking means
- 2200/021 . . for rotational movement
- 2200/022 . . . by friction
- 2200/024 . . . by positive interaction, e.g. male-female connections
- 2200/025 . . for translational movement
- 2200/027 . . . by friction
- 2200/028 . . . by positive interaction, e.g. male-female connections
- 2200/04 . Balancing means
- 2200/041 . . for balancing rotational movement of the head
- 2200/042 . . . for panning movement
- 2200/044 . . for balancing rotational movement of the undercarriage
- 2200/045 . . . for panning movement
- 2200/047 . . for balancing translational movement of the head
- 2200/048 . . for balancing translational movement of the undercarriage
- 2200/06 . Arms
- 2200/061 . . Scissors arms
- 2200/063 . . Parallelogram arms
- 2200/065 . . with a special structure, e.g. reinforced or adapted for space reduction
- 2200/066 . . being part of the head
- 2200/068 . . being part of the undercarriage
- 2200/08 . Foot or support base