

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.

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		<u>WARNING</u>
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		<u>WARNING</u>
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)		<u>WARNING</u>
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)	11/046	. . . . {adapted to upward-downward translation movement}
9/00	Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44)		<u>WARNING</u>
			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)}	11/28	. . . . Undercarriages for supports with one single telescoping pillar
	WARNING	11/30	. . . . . with co-moving side-struts
	This group is not complete pending reclassification; see also group F16M 11/12	11/32	. . . . . Undercarriages for supports with three or more telescoping legs
11/2078	. . . . {with ball-joint (ball-jointed hinges F16C 11/06)}	11/34	. . . . . Members limiting spreading of legs {, e.g. "umbrella legs"}
	WARNING	11/36	. . . . . Members preventing slipping of the feet
	This group is not complete pending reclassification; see also group F16M 11/14	11/38	. . . by folding {, e.g. pivoting or scissors tong mechanisms}
11/2085	. . {comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage}	11/40	. . . by means of coilable or bendable legs {or spiral shaped legs}
	WARNING	11/42	. with arrangement for propelling the support {stands on wheels}
	This group is not complete pending reclassification; see also group F16M 11/04	11/425	. . {along guiding means}
11/2092	. . {comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage}		WARNING
	WARNING		This group is not complete pending reclassification; see also group F16M 11/42
	This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/38	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)}
11/22	. . with approximately constant height, e.g. with constant length of column or of legs (F16M 11/42 takes precedence)	13/005	. {integral with the apparatus or articles to be supported}
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)		WARNING
11/242	. . . {by spreading of the legs (F16M 11/32 takes precedence)}		This group is not complete pending reclassification; see also group F16M 13/00
	WARNING	13/02	. for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
	This group is not complete pending reclassification; see also group F16M 11/24 or F16M 11/32	13/022	. . {repositionable}
11/245	. . . . {Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs F16M 11/34)}		WARNING
	WARNING		This group is not complete pending reclassification; see also group F16M 13/02
	this group is not complete pending a reorganisation, see also F16M 11/24 and F16M 11/34	13/025	. . {Corner supports}
11/247	. . . . {Members preventing slipping of the feet (for supports with three or more telescoping legs F16M 11/36)}		WARNING
	WARNING		This group is not complete pending reclassification; see also group F16M 13/02
	this group is not complete pending a reorganisation, see also F16M 11/24 and F16M 11/36	13/027	. . {Ceiling supports}
11/26	. . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only F16B 7/10)		WARNING
			this group is not complete pending a reorganisation, see also F16M 13/02
		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

F16M

- 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