

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, MACHINES OR APPARATUS, NOT SPECIFIC TO ENGINES, MACHINES OR APPARATUS PROVIDED FOR ELSEWHERE; STANDS; 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.

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| 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 | 11/043 | . . . {Allowing translations} |
| 1/024 | . . . facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods | 11/045 | {adapted to left-right translation movement} |
| 1/025 | . . . Assembling bearings in casings, e.g. having anchor bolts | 11/046 | {adapted to upward-downward translation movement} |
| 1/026 | . . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings | 11/048 | {adapted to forward-backward translation movement} |
| 1/04 | . for rotary engines or similar machines | 11/06 | . . . allowing pivoting |
| 1/08 | . characterised by being built-up of sheet material or welded parts | 11/08 | around a vertical axis {, e.g. panoramic heads (F16M 11/12 takes precedence)} |
| 3/00 | Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general B60 - B62) | 11/10 | around a horizontal axis {(F16M 11/12 takes precedence)} |
| 5/00 | Engine beds, i.e. means for supporting engines or machines on foundations | 11/105 | {the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation} |
| 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) | 11/12 | in more than one direction |
| | | 11/121 | {constituted of several dependent joints} |
| | | 11/123 | {the axis of rotation intersecting in a single point, e.g. by using gimbals} |
| 9/00 | Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44) | 11/125 | {for tilting and rolling (F16M 11/14 takes precedence)} |

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| 11/126 | {for tilting and panning (F16M 11/14 takes precedence)} | 11/36 | Members preventing slipping of the feet |
| 11/128 | {for panning and rolling (F16M 11/14 takes precedence)} | 11/38 | . . . by folding {, e.g. pivoting or scissors tong mechanisms} |
| 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 }) | 11/40 | . . . by means of coilable or bendable legs {or spiral shaped legs} |
| 11/16 | . . Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof | 11/42 | . with arrangement for propelling the support {stands on wheels} |
| 11/18 | . . with mechanism for moving the apparatus relatively to the stand | 11/425 | . . {along guiding means} |
| 11/20 | . Undercarriages with or without wheels | 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)} |
| 11/2007 | . . {comprising means allowing pivoting adjustment} | 13/005 | . {integral with the apparatus or articles to be supported} |
| 11/2014 | . . . {around a vertical axis (F16M 11/2035 takes precedence)} | 13/02 | . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle |
| 11/2021 | . . . {around a horizontal axis (F16M 11/2035 takes precedence)} | 13/022 | . . {repositionable} |
| 11/2028 | {for rolling, i.e. for creating a landscape-portrait rotation} | 13/025 | . . {Corner supports} |
| 11/2035 | . . . {in more than one direction} | 13/027 | . . {Ceiling supports} |
| 11/2042 | {constituted of several dependent joints} | 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)} |
| 11/205 | {the axis of rotation intersecting in a single point, e.g. gimbals} | 13/06 | . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick |
| 11/2057 | {for tilting and rolling (F16M 11/2078 takes precedence)} | 13/08 | . . for use as a walking-cane |
| 11/2064 | {for tilting and panning (F16M 11/2078 takes precedence)} | 2200/00 | Details of stands or supports |
| 11/2071 | {for panning and rolling (F16M 11/2078 takes precedence)} | 2200/02 | . Locking means |
| 11/2078 | {with ball-joint (ball-jointed hinges F16C 11/06)} | 2200/021 | . . for rotational movement |
| 11/2085 | . . {comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage} | 2200/022 | . . . by friction |
| 11/2092 | . . {comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage} | 2200/024 | . . . by positive interaction, e.g. male-female connections |
| 11/22 | . . with approximately constant height, e.g. with constant length of column or of legs (F16M 11/42 takes precedence) | 2200/025 | . . for translational movement |
| 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) | 2200/027 | . . . by friction |
| 11/242 | . . . {by spreading of the legs (F16M 11/32 takes precedence)} | 2200/028 | . . . by positive interaction, e.g. male-female connections |
| 11/245 | {Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs F16M 11/34)} | 2200/04 | . Balancing means |
| 11/247 | {Members preventing slipping of the feet (for supports with three or more telescoping legs F16M 11/36)} | 2200/041 | . . for balancing rotational movement of the head |
| 11/26 | . . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only F16B 7/10) | 2200/042 | . . . for panning movement |
| 11/28 | Undercarriages for supports with one single telescoping pillar | 2200/044 | . . for balancing rotational movement of the undercarriage |
| 11/30 | with co-moving side-struts | 2200/045 | . . . for panning movement |
| 11/32 | Undercarriages for supports with three or more telescoping legs | 2200/047 | . . for balancing translational movement of the head |
| 11/34 | Members limiting spreading of legs {, e.g. "umbrella legs"} | 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 |