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
1/02 . for reciprocating engines or similar machines
1/021 . for housing crankshafts
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)
1/023 . . specially adapted for engines or machines with star-shaped cylinder arrangement
1/024 . . facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods
1/025 . . Assembling bearings in casings, e.g. having anchor bolts
1/026 . . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings
1/04 . for rotary engines or similar machines
1/08 . characterised by being built-up of sheet material or welded parts

3/00  Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general B60 - B62)

5/00  Engine beds, i.e. means for supporting engines or machines on foundations

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)

9/00  Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44)

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)
11/02 . Heads
11/04 . . Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
11/041 . . . {Allowing quick release of the apparatus}
11/043 . . . {Allowing translations}
11/045 . . . . {adapted to left-right translation movement}
11/046 . . . . {adapted to upward-downward translation movement}
11/048 . . . . {adapted to forward-backward translation movement}
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)
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}
11/125 . . . . . (for tilting and rolling (F16M 11/14 takes precedence)
11/126 . . . . (for tilting and panning (F16M 11/14 takes precedence))
11/128 . . . . (for penning and rolling (F16M 11/14 takes precedence))
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]
11/2014 . . . [around a vertical axis (F16M 11/2035 takes precedence)]
11/2021 . . . [around a horizontal axis (F16M 11/2035 takes precedence)]
11/2028 . . . . (for rolling, i.e. for creating a landscape-portrait rotation)
11/2035 . . . . [in more than one direction]
11/2042 . . . . [constituted of several dependent joints]
11/205 . . . . {the axis of rotation intersecting in a single point, e.g. gimbals}
11/2057 . . . . [for tilting and rolling (F16M 11/2078 takes precedence)]
11/2064 . . . . [for tilting and panning (F16M 11/2078 takes precedence)]
11/2071 . . . . [for panning and rolling (F16M 11/2078 takes precedence)]
11/2078 . . . . [with ball-joint (ball-jointed hinges F16C 11/06)]
11/2085 . . . . [comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage]
11/2092 . . . . [comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage]
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)]
11/245 . . . . [Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs F16M 11/34)]
11/247 . . . . [Members preventing slipping of the feet (for supports with three or more telescoping legs 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)

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 handheld 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)
13/02 . . . . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
13/022 . . . . [repositionable]
13/025 . . . . [Corner supports]
13/027 . . . . [Ceiling supports]
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