

# 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.

<b>1/00</b>	<b>Frames or casings of engines, machines or apparatus; Frames serving as machinery beds</b>	<b>11/00</b>	<b>Stands or trestles as supports for apparatus or articles placed thereon {Stands for scientific apparatus such as gravitational force meters}(without heads <a href="#">F16K 13/00</a>; easels or stands for blackboards or the like <a href="#">A47B 97/04</a>; show-stands <a href="#">A47F 7/00</a>; for workmen <a href="#">E04G 1/32</a>; {sockets or holders for poles or posts <a href="#">E04H 12/22</a> } ; supporting, suspending for lighting devices <a href="#">F21V 21/00</a>; special modifications for particular apparatus or articles, see the appropriate subclasses)</b>
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 <a href="#">F16M 1/023</a> )		
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	11/02	. Heads
1/025	. . . Assembling bearings in casings, e.g. having anchor bolts	11/04	. . Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
1/026	. . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings	11/041	. . . {Allowing quick release of the apparatus}
1/04	. for rotary engines or similar machines	11/043	. . . {Allowing translations}
1/08	. characterised by being built-up of sheet material or welded parts	11/045	. . . . {adapted to left-right translation movement}
		11/046	. . . . {adapted to upward-downward translation movement}
		11/048	. . . . {adapted to forward-backward translation movement}
<b>3/00</b>	<b>Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general <a href="#">B60</a> - <a href="#">B62</a>)</b>	11/06	. . . allowing pivoting
<b>5/00</b>	<b>Engine beds, i.e. means for supporting engines or machines on foundations</b>	11/08	. . . . around a vertical axis {, e.g. panoramic heads ( <a href="#">F16M 11/12</a> takes precedence)}
<b>7/00</b>	<b>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 <a href="#">F16F</a>, especially <a href="#">F16F 15/04</a>)</b>	11/10	. . . . around a horizontal axis {( <a href="#">F16M 11/12</a> takes precedence)}
<b>9/00</b>	<b>Special layout of foundations with respect to machinery to be supported (foundations for machinery <a href="#">E02D 27/44</a>)</b>	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 ( <a href="#">F16M 11/14</a> takes precedence)}

11/126	. . . . . {for tilting and panning ( <a href="#">F16M 11/14</a> takes precedence)}	11/36	. . . . . Members preventing slipping of the feet
11/128	. . . . . {for panning and rolling ( <a href="#">F16M 11/14</a> takes precedence)}	11/38	. . . by folding {, e.g. pivoting or scissors tong mechanisms}
11/14	. . . . . with ball-joint (ball-jointed hinges <a href="#">F16C 11/06</a> {; adjustable mountings employing universal joints for lighting devices <a href="#">F21V 21/26</a> - <a href="#">F21V 21/30</a> })	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	<b>13/00</b>	<b>Other supports for positioning apparatus or articles (heads thereof <a href="#">F16M 11/02</a> {; undercarriages thereof <a href="#">F16M 11/20</a> } ; adapted to be stuck in the ground <a href="#">A45F 3/44</a> {; sockets or holders for poles or posts <a href="#">E04H 12/22</a>}); Means for steadying hand-held apparatus or articles {(supports for measuring instruments <a href="#">G01D 11/30</a>; supports for casings of remote control switching devices <a href="#">H01H 9/025</a>)}</b>
11/2007	. . {comprising means allowing pivoting adjustment}	13/005	. {integral with the apparatus or articles to be supported}
11/2014	. . . {around a vertical axis ( <a href="#">F16M 11/2035</a> 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 ( <a href="#">F16M 11/2035</a> 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 <a href="#">G03B</a> )}
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 ( <a href="#">F16M 11/2078</a> takes precedence)}	13/08	. . for use as a walking-cane
11/2064	. . . . . {for tilting and panning ( <a href="#">F16M 11/2078</a> takes precedence)}	<b>2200/00</b>	<b>Details of stands or supports</b>
11/2071	. . . . . {for panning and rolling ( <a href="#">F16M 11/2078</a> takes precedence)}	2200/02	. Locking means
11/2078	. . . . . {with ball-joint (ball-jointed hinges <a href="#">F16C 11/06</a> )}	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 ( <a href="#">F16M 11/42</a> 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} ( <a href="#">F16M 11/42</a> takes precedence)	2200/027	. . . by friction
11/242	. . . {by spreading of the legs ( <a href="#">F16M 11/32</a> 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 <a href="#">F16M 11/34</a> )}	2200/04	. Balancing means
11/247	. . . . . {Members preventing slipping of the feet (for supports with three or more telescoping legs <a href="#">F16M 11/36</a> )}	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 <a href="#">F16B 7/10</a> )	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