

**CPC****COOPERATIVE PATENT CLASSIFICATION****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.

**F16M 1/00**

**Frames or casings of engines, machines or apparatus; Frames serving as machinery beds**

## F16M 1/02

. for reciprocating engines or similar machines

## F16M 1/021

.. for housing crankshafts

## F16M 1/022

... of tunnel type, i.e. wherein the crankshaft can only be introduced axially ([for engines or machines with star-shaped cylinder arrangement F16K 1/023](#))

## F16M 1/023

... specially adapted for engines or machines with star-shaped cylinder arrangement

## F16M 1/024

... facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods

## F16M 1/025

... Assembling bearings in casings, e.g. having anchor bolts

## F16M 1/026

.. for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings

## F16M 1/04

. for rotary engines or similar machines

## F16M 1/08

. characterised by being built-up of sheet material or welded parts

**F16M 3/00**

**Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets ([construction of vehicles in general B60 to B62](#))**

**F16M 5/00**

**Engine beds, i.e. means for supporting engines or machines on foundations**

**F16M 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 F16E, especially F16F 15/04](#))**

**F16M 9/00**

**Special layout of foundations with respect to machinery to be supported ([foundations for machinery E02D 27/44](#))**

- F16M 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 blackboard 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)
- [F16M 11/02](#)      .    Heads
- [F16M 11/04](#)      ..    Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
- [F16M 11/041](#)     ...    { Allowing quick release of the apparatus}
- WARNING**
- [F16M 11/04](#)
- [F16M 11/043](#)     ...    { Allowing translations}
- WARNING**
- [F16M 11/04](#)
- [F16M 11/045](#)     ....    { adapted to left-right translation movement}
- WARNING**
- [F16M 11/04](#)
- [F16M 11/046](#)     ....    { adapted to upward-downward translation movement}
- WARNING**
- [F16M 11/04](#) and [F16M 11/24](#)
- [F16M 11/048](#)     ....    { adapted to forward-backward translation movement}
- WARNING**
- [F16M 11/04](#) and [F16M 11/38](#)
- [F16M 11/06](#)      ...    allowing pivoting
- [F16M 11/08](#)      ....    around a vertical axis, { e.g. panoramic heads ([F16M 11/12](#) takes precedence)}
- [F16M 11/10](#)      ....    around a horizontal axis [([F16M 11/12](#) takes precedence)]
- [F16M 11/105](#)     .....    { the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation}
- WARNING**
- [F16M 11/10](#)
- [F16M 11/12](#)      ....    in more than one direction

- F16M 11/121 ..... { constituted of several dependent joints}
- WARNING**
- [F16M 11/12](#)
- F16M 11/123 ..... { the axis of rotation intersecting in a single point, e.g. by using gimbals}
- WARNING**
- [F16M 11/12](#)
- F16M 11/125 ..... { for tilting and rolling ([F16M 11/14](#) takes precedence)}
- WARNING**
- [F16M 11/12](#)
- F16M 11/126 ..... { for tilting and panning ([F16M 11/14](#) takes precedence)}
- WARNING**
- [F16M 11/12](#)
- F16M 11/128 ..... { for panning and rolling ([F16M 11/14](#) takes precedence)}
- WARNING**
- [F16M 11/12](#)
- F16M 11/14 ..... with ball-joint (ball-jointed hinges [F16C 11/06](#)){adjustable mountings employing universal joints for lighting devices [F21V 21/26](#) to [F21V 21/30](#)}
- F16M 11/16 .. Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof
- F16M 11/18 .. with mechanism for moving the apparatus relatively to the stand [N C1202]
- F16M 11/20 . Undercarriages with or without wheels
- F16M 11/2007 .. { comprising means allowing pivoting adjustment}
- WARNING**
- [F16M 11/06](#), [F16M 11/08](#), [F16M 11/10](#), [F16M 11/12](#), [F16M 11/14](#) depending on the type of movement allowed
- F16M 11/2014 ... { around a vertical axis ([F16M 11/2035](#) takes precedence)}
- WARNING**
- [F16M 11/08](#)
- F16M 11/2021 ... { around a horizontal axis ([F16M 11/2035](#) takes precedence)}
- WARNING**

		<a href="#">F16M 11/10</a>
F16M 11/2028	....	{ for rolling, i.e. for creating a landscape-portrait rotation}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/10</a>
F16M 11/2035	...	{ in more than one direction}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/2042	....	{ constituted of several dependent joints}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/205	.....	{ the axis of rotation intersecting in a single point e.g. gimbals}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a> ]
F16M 11/2057	....	{ for tilting and rolling ( <a href="#">F16M 11/2078</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/2064	....	{ for tilting and panning ( <a href="#">F16M 11/2078</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/2071	....	{ for panning and rolling ( <a href="#">F16M 11/2078</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a> ]
F16M 11/2078	....	{ with ball-joint (ball-jointed hinges <a href="#">F16C 11/06</a> )}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/14</a> ]
F16M 11/2085	..	{ comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage}
		<b><u>WARNING</u></b>

[F16M 11/04](#)

F16M 11/2092 .. { comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage}

**WARNING**[F16M 11/04](#) and [F16M 11/38](#)

F16M 11/22 .. with approximately constant height, e.g. with constant length of column or of legs ([F16M 11/42](#) takes precedence)

F16M 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)

F16M 11/242 ... { by spreading of the legs ([F16M 11/32](#) takes precedence)}

**WARNING**[F16M 11/24](#) or [F16M 11/32](#)

F16M 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](#)

F16M 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](#)

F16M 11/26 ... by telescoping, with or without folding (details concerning the constructional features of telescoping parts only [F16B 7/10](#))

F16M 11/28 .... Undercarriages for supports with one single telescoping pillar

F16M 11/30 ..... with co-moving side-struts

F16M 11/32 .... Undercarriages for supports with three or more telescoping legs

F16M 11/34 ..... Members limiting spreading of legs, {e.g. "umbrella legs"}

F16M 11/36 ..... Members preventing slipping of the feet

F16M 11/38 ... by folding, {e.g. pivoting or scissors tong mechanisms}

F16M 11/40 ... by means of coilable or bendable legs {or spiral shaped legs}

F16M 11/42 . with arrangement for propelling the support {stands on wheels}

F16M 11/425 .. { along guiding means}

**WARNING**

[F16M 11/42](#)]

**F16M 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](#))}

[F16M 13/005](#)      . { integral with the apparatus or articles to be supported}

**WARNING**

[F16M 13/00](#)

[F16M 13/02](#)      . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle  
[F16M 13/022](#)      .. { repositionable}

**WARNING**

[F16M 13/02](#)

[F16M 13/025](#)      .. { Corner supports}

**WARNING**

[F16M 13/02](#)]

[F16M 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](#))}

[F16M 13/06](#)      . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick  
[F16M 13/08](#)      .. for use as a walking-cane

**F16M 2200/00**      **Details of stands or supports**

[F16M 2200/02](#)      . Locking means  
[F16M 2200/021](#)      .. for rotational movement  
[F16M 2200/022](#)      ... by friction  
[F16M 2200/024](#)      ... by positive interaction, e.g. male-female connections

- F16M 2200/025 .. for translational movement
- F16M 2200/027 ... by friction
- F16M 2200/028 ... by positive interaction, e.g. male-female connections
  
- F16M 2200/04 . Balancing means
- F16M 2200/041 .. for balancing rotational movement of the head
- F16M 2200/042 ... for panning movement
- F16M 2200/044 .. for balancing rotational movement of the undercarriage
- F16M 2200/045 ... for panning movement
- F16M 2200/047 .. for balancing translational movement of the head
- F16M 2200/048 .. for balancing translational movement of the undercarriage
  
- F16M 2200/06 . Arms
- F16M 2200/061 .. Scissors arms
- F16M 2200/063 .. Parallelogram arms
- F16M 2200/065 .. with a special structure, e.g. reinforced or adapted for space reduction
- F16M 2200/066 .. being part of the head
- F16M 2200/068 .. being part of the undercarriage
  
- F16M 2200/08 . Foot or support base