

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

**F16M 9/00**

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

<b>F16M 11/00</b>	<b>Stands or trestles as supports for apparatus or articles placed thereon</b> {Stands for scientific apparatus such as gravitational force meters}(without heads <a href="#">F16K 13/00</a> ; easels or stands for blackboard 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)
<a href="#">F16M 11/02</a>	. Heads
<a href="#">F16M 11/04</a>	. . Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand
<a href="#">F16M 11/041</a>	. . . { Allowing quick release of the apparatus}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/04</a>
<a href="#">F16M 11/043</a>	. . . { Allowing translations}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/04</a>
<a href="#">F16M 11/045</a>	. . . . { adapted to left-right translation movement}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/04</a>
<a href="#">F16M 11/046</a>	. . . . { adapted to upward-downward translation movement}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/04</a> and <a href="#">F16M 11/24</a>
<a href="#">F16M 11/048</a>	. . . . { adapted to forward-backward translation movement}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/04</a> and <a href="#">F16M 11/38</a>
<a href="#">F16M 11/06</a>	. . . allowing pivoting
<a href="#">F16M 11/08</a>	. . . . around a vertical axis, { e.g. panoramic heads ( <a href="#">F16M 11/12</a> takes precedence)}
<a href="#">F16M 11/10</a>	. . . . around a horizontal axis [( <a href="#">F16M 11/12</a> takes precedence)]
<a href="#">F16M 11/105</a>	. . . . . { the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation}
	<b><u>WARNING</u></b>
	<a href="#">F16M 11/10</a>
<a href="#">F16M 11/12</a>	. . . . in more than one direction

F16M 11/121	.....	{ constituted of several dependent joints}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/123	.....	{ the axis of rotation intersecting in a single point, e.g. by using gimbals}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/125	.....	{ for tilting and rolling ( <a href="#">F16M 11/14</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/126	.....	{ for tilting and panning ( <a href="#">F16M 11/14</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/128	.....	{ for panning and rolling ( <a href="#">F16M 11/14</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/12</a>
F16M 11/14	.....	with ball-joint ( <a href="#">ball-jointed hinges F16C 11/06</a> ){adjustable mountings employing universal joints for lighting devices <a href="#">F21V 21/26</a> to <a href="#">F21V 21/30</a> }
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}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/06</a> , <a href="#">F16M 11/08</a> , <a href="#">F16M 11/10</a> , <a href="#">F16M 11/12</a> , <a href="#">F16M 11/14</a> depending on the type of movement allowed
F16M 11/2014	...	{ around a vertical axis ( <a href="#">F16M 11/2035</a> takes precedence)}
		<b><u>WARNING</u></b>
		<a href="#">F16M 11/08</a>
F16M 11/2021	...	{ around a horizontal axis ( <a href="#">F16M 11/2035</a> takes precedence)}
		<b><u>WARNING</u></b>

F16M 11/10

F16M 11/2028 . . . . { for rolling, i.e. for creating a landscape-portrait rotation}

**WARNING**F16M 11/10

F16M 11/2035 . . . { in more than one direction}

**WARNING**F16M 11/12

F16M 11/2042 . . . . { constituted of several dependent joints}

**WARNING**F16M 11/12

F16M 11/205 . . . . . { the axis of rotation intersecting in a single point e.g. gimbals}

**WARNING**F16M 11/12]

F16M 11/2057 . . . . { for tilting and rolling (F16M 11/2078 takes precedence)}

**WARNING**F16M 11/12

F16M 11/2064 . . . . { for tilting and panning (F16M 11/2078 takes precedence)}

**WARNING**F16M 11/12

F16M 11/2071 . . . . { for panning and rolling (F16M 11/2078 takes precedence)}

**WARNING**F16M 11/12]

F16M 11/2078 . . . . { with ball-joint (ball-jointed hinges F16C 11/06)}

**WARNING**F16M 11/14]

F16M 11/2085 . . { comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage}

**WARNING**

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