

ECLA EUROPEAN 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:

[B21B31/02](#) Metal-rolling stand frames
[G01D11/30](#) Supports specially adapted for indicating or recording instruments.

F16M1/00 Frames or casings of engines, machines or apparatus; Frames serving as machinery beds

- F16M1/02 . for reciprocating engines or similar machines
- F16M1/021 . . for housing crankshafts
- F16M1/022 . . . of tunnel type, i.e. wherein the crankshaft can only be introduced axially (for engines or machines with star-shaped cylinder arrangement [F16K1/023](#))
- F16M1/023 . . . specially adapted for engines or machines with star-shaped cylinder arrangement
- F16M1/024 . . . facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods
- F16M1/025 . . . Assembling bearings in casings, e.g. having anchor bolts
- F16M1/026 . . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings
- F16M1/04 . for rotary engines or similar machines
- F16M1/08 . characterised by being built-up of sheet material or welded parts

F16M3/00 Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general [B60](#) to [B62](#))

F16M5/00 Engine beds, i.e. means for supporting engines or machines on foundations

F16M7/00 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 [F16F15/04](#))

F16M9/00 Special layout of foundations with respect to machinery to be supported (foundations for machinery [E02D27/44](#))

F16M11/00 Stands or trestles as supports for apparatus or articles placed thereon [N: Stands for scientific apparatus such as gravitational force meters] (without heads [F16K13/00](#); easels or stands for blackboard or the like [A47B97/04](#); show-stands [A47F7/00](#); for

workmen [E04G1/32](#); [N: sockets or holders for poles or posts [E04H12/22](#)]; supporting, suspending for lighting devices [F21V21/00](#); special modifications for particular apparatus or articles, see the appropriate subclasses)

- F16M11/02 . Heads
- F16M11/04 . . Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand [[C1202](#)]
- F16M11/04A . . . [N: Allowing quick release of the apparatus] [[N1202](#)]
- [N: **WARNING**
[[N1202](#)]This group is not complete pending reclassification; see also group [F16M11/04](#)
]
- F16M11/04T . . . [N: Allowing translations] [[N1202](#)]
- [N: **WARNING**
[[N1202](#)]This group is not complete pending reclassification; see also group [F16M11/04](#)
]
- F16M11/04T1 [N: adapted to left-right translation movement] [[N1202](#)]
- [N: **WARNING**
[[N1202](#)]This group is not complete pending reclassification; see also group [F16M11/04](#)
]
- F16M11/04T2 [N: adapted to upward-downward translation movement] [[N1202](#)]
- [N: **WARNING**
[[N1202](#)]This group is not complete pending reclassification; see also group [F16M11/04](#) and [F16M11/24](#)
]
- F16M11/04T3 [N: adapted to forward-backward translation movement] [[N1202](#)]
- [N: **WARNING**
[[N1202](#)]This group is not complete pending reclassification; see also group [F16M11/04](#) and [F16M11/38](#)
]
- F16M11/06 . . . allowing pivoting
- F16M11/08 around a vertical axis, [N: e.g. panoramic heads ([F16M11/12](#) takes precedence)] [[C1202](#)]
- F16M11/10 around a horizontal axis [([F16M11/12](#) takes precedence)] [[C1202](#)]
- F16M11/10A [N: the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation] [[N1202](#)] [[M1202](#)]
- [N: **WARNING**
[[C1202](#)]Not complete; see also [F16M11/10](#)
]
- F16M11/12 in more than one direction [[C1202](#)]
- F16M11/12A [N: constituted of several dependent joints] [[N1202](#)]
- [N: **WARNING**

- [N1202] This group is not complete pending reclassification; see also group [F16M11/12](#)]
- F16M11/12A1 [N: the axis of rotation intersecting in a single point, e.g. by using gimbals] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/12](#)]
- F16M11/12B [N: for tilting and rolling ([F16M11/14](#) takes precedence)] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/12](#)]
- F16M11/12C [N: for tilting and panning ([F16M11/14](#) takes precedence)] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/12](#)]
- F16M11/12D [N: for panning and rolling ([F16M11/14](#) takes precedence)] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/12](#)]
- F16M11/14 with ball-joint (ball-jointed hinges [F16C11/06](#)) [N: adjustable mountings employing universal joints for lighting devices [F21V21/26](#) to [F21V21/30](#)]
- F16M11/16 . . Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof
- F16M11/18 . . with mechanism for moving the apparatus relatively to the stand [N C1202]
- F16M11/20 . Undercarriages with or without wheels [C1202]
- F16M11/20A . . [N: comprising means allowing pivoting adjustment] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/06](#), [F16M11/08](#), [F16M11/10](#), [F16M11/12](#), [F16M11/14](#) depending on the type of movement allowed]
- F16M11/20A1 . . . [N: around a vertical axis ([F16M11/20A3](#) takes precedence)] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/08](#)]
- F16M11/20A2 . . . [N: around a horizontal axis ([F16M11/20A3](#) takes precedence)] [N1202]
- [N: **WARNING**
[N1202] This group is not complete pending reclassification; see also group [F16M11/10](#)]

- F16M11/20A2R [N: for rolling, i.e. for creating a landscape-portrait rotation] [N1202]
 [N: **WARNING**
 [N1202] Not complete; see also [F16M11/10](#)
]
- F16M11/20A3 [N: in more than one direction] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M11/12](#)
]
- F16M11/20A3A [N: constituted of several dependent joints] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M11/12](#)
]
- F16M11/20A3A1 [N: the axis of rotation intersecting in a single point e.g. gimbals] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also
 group [F16M11/12](#)
]
- F16M11/20A3B [N: for tilting and rolling ([F16M11/20A3E](#) takes precedence)] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M11/12](#)
]
- F16M11/20A3C [N: for tilting and panning ([F16M11/20A3E](#) takes precedence)] [N1202]
 [N: **WARNING**
 [N1202] This group is not complete pending reclassification; see also group
[F16M11/12](#)
]
- F16M11/20A3D [N: for panning and rolling ([F16M11/20A3E](#) takes precedence)] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M11/12](#)
]
- F16M11/20A3E [N: with ball-joint ([ball-jointed hinges F16C11/06](#))] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M11/14](#)
]
- F16M11/20B . . . [N: comprising means allowing sideward adjustment, i.e. left-right translation of the
 head relatively to the undercarriage] [N1202]
 [N: **WARNING**
 [N1202] This group is not complete pending reclassification; see also group
[F16M11/04](#)
]
- F16M11/20C . . . [N: comprising means allowing depth adjustment, i.e. forward-backward translation

of the head relatively to the undercarriage] [N1202]

[N: **WARNING**

[N1202]This group is not complete pending reclassification; see also group [F16M11/04](#) and [F16M11/38](#)]

- F16M11/22 . . with approximately constant height, e.g. with constant length of column or of legs ([F16M11/42](#) takes precedence) [C1202]
- F16M11/24 . . changeable in height or length of legs, also for transport only, [N: e.g. by means of tubes screwed into each other] ([F16M11/42](#) takes precedence)
- F16M11/24A . . . [N: by spreading of the legs ([F16M11/32](#) takes precedence)] [N1202]

[N: **WARNING**

[N1202]This group is not complete pending reclassification; see also group [F16M11/24](#) or [F16M11/32](#)]

- F16M11/24A1 [N: Members limiting spreading of legs, e.g. "umbrella legs" (for supports with three or more telescoping legs [F16M11/34](#))] [N1205]

[N: **WARNING**

this group is not complete pending a reorganisation, see also [F16M11/24](#) and [F16M11/34](#)]

- F16M11/24A2 [N: Members preventing slipping of the feet (for supports with three or more telescoping legs [F16M11/36](#))] [N1205]

[N: **WARNING**

this group is not complete pending a reorganisation, see also [F16M11/24](#) and [F16M11/36](#)]

- F16M11/26 . . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only [F16B7/10](#))
- F16M11/28 Undercarriages for supports with one single telescoping pillar
- F16M11/30 with co-moving side-struts
- F16M11/32 Undercarriages for supports with three or more telescoping legs
- F16M11/34 Members limiting spreading of legs, [N: e.g. "umbrella legs"]
- F16M11/36 Members preventing slipping of the feet
- F16M11/38 . . . by folding, [N: e.g. pivoting or scissors tong mechanisms]
- F16M11/40 . . . by means of coilable or bendable legs [N: or spiral shaped legs]
- F16M11/42 . with arrangement for propelling the support [N: stands on wheels]
- F16M11/42A . . [N: along guiding means] [N1202]

[N: **WARNING**

[N1202]This group is not complete pending reclassification; see also group [F16M11/42](#)]

F16M13/00

Other supports for positioning apparatus or articles (heads thereof [F16M11/02](#); [N: undercarriages thereof [F16M11/20](#)]; adapted to be stuck in the ground [A45F3/44](#); [N: sockets or holders for poles or posts [E04H12/22](#)]); **Means for steadying hand-held apparatus or articles** [N: (supports for measuring instruments [G01D11/30](#); supports for casings of remote control switching devices [H01H9/02C4C](#))] [C1202]

- F16M13/00A . [N: integral with the apparatus or articles to be supported] [N1202]
 [N: **WARNING**
 [N1202] This group is not complete pending reclassification; see also group
[F16M13/00](#)
]
- F16M13/02 . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
 F16M13/02A . . [N: repositionable] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M13/02](#)
]
- F16M13/02B . . [N: Corner supports] [N1202]
 [N: **WARNING**
 [N1202]This group is not complete pending reclassification; see also group
[F16M13/02](#)
]
- F16M13/02C . . [N: Ceiling supports] [N1205]
 [N: **WARNING**
 this group is not complete pending a reorganisation, see also [F16M13/02](#)
]
- F16M13/04 . for supporting on, or holding steady relative to, a person, e.g. by chains, [N: 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](#))]
- F16M13/06 . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick
 F16M13/08 . . for use as a walking-cane