

**SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING**

**F16 ENGINEERING ELEMENTS OR 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(s)**

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.

**Subclass index**

**FRAMES, CASINGS, OR BEDS**

- Displaceable.....3/00
- For engines, machines, or apparatus.....1/00, 5/00
- Foundations; details.....9/00, 7/00

**STANDS OR SUPPORTS.....11/00, 13/00**

<p><b>1/00 Frames or casings of engines, machines, or apparatus; Frames serving as machinery beds [2]</b></p> <p>1/02 • for reciprocating engines or similar machines</p> <p>1/021 • • for housing crankshafts</p> <p>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)</p> <p>1/023 • • • specially adapted for engines or machines with star-shaped cylinder arrangement</p> <p>1/024 • • • facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods</p> <p>1/025 • • • Assembling bearings in casings, e.g. having anchor bolts</p> <p>1/026 • • for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings</p> <p>1/04 • for rotary engines or similar machines</p> <p>1/08 • characterised by being built-up of sheet material or welded parts</p> <p><b>3/00 Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general B60-B62)</b></p> <p><b>5/00 Engine beds, i.e. means for supporting engines or machines on foundations</b></p> <p><b>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)</b></p>	<p><b>9/00 Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44)</b></p> <p><b>11/00 Stands or trestles as supports for apparatus or articles placed thereon (without heads F16M 13/00; easels or stands for blackboards or the like A47B 97/04; show-stands A47F 7/00; for workmen E04G 1/32; supporting, suspending for lighting devices F21V 21/00; special modifications for particular apparatus or articles, see the appropriate subclasses)</b></p> <p>11/02 • Heads</p> <p>11/04 • • Means for attachment of apparatus; Means allowing adjustment of the apparatus relatively to the stand</p> <p>11/06 • • • allowing pivoting</p> <p>11/08 • • • • around a vertical axis</p> <p>11/10 • • • • around a horizontal axis</p> <p>11/12 • • • • in more than one direction</p> <p>11/14 • • • • • with ball-joint (ball-jointed hinges F16C 11/06)</p> <p>11/16 • • Details concerning attachment of head-supporting legs, with or without actuation of locking members therefor</p> <p>11/18 • • with mechanism for moving the apparatus relatively to the stand</p> <p>11/20 • Undercarriages with or without wheels</p> <p>11/22 • • with approximately constant height, e.g. with constant length of column or of legs (F16M 11/42 takes precedence)</p> <p>11/24 • • changeable in height or length of legs, also for transport only (F16M 11/42 takes precedence)</p>
--	---

## F16M

- 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
- 11/36 • • • • • Members preventing slipping of the feet
- 11/38 • • • by folding
- 11/40 • • • by means of coilable or bendable legs

- 11/42 • with arrangement for propelling the support

### **13/00 Other supports for positioning apparatus or articles** (heads thereof F16M 11/02; adapted to be stuck in the ground A45F 3/44); **Means for steadying hand-held apparatus or articles**

- 13/02 • for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle
- 13/04 • for supporting on, or holding steady relative to, a person, e.g. by chains
- 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