

# 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

#### F16T STEAM TRAPS OR LIKE APPARATUS FOR DRAINING-OFF LIQUIDS FROM ENCLOSURES PREDOMINANTLY CONTAINING GASES OR VAPOURS

##### 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.

- 1/00 Steam traps or like apparatus for draining-off liquids from enclosures predominantly containing gases or vapours, e.g. gas lines, steam lines, containers**
- 1/02 . with valves controlled thermally
  - 1/04 . . by expansion rods
  - 1/06 . . by expansion tubes
  - 1/08 . . by bimetallic strips or plates
  - 1/10 . . by thermally-expansible liquids
  - 1/12 . with valves controlled by excess or release of pressure
  - 1/14 . . involving a piston, diaphragm, or bellows, e.g. displaceable under pressure of incoming condensate [{\(F16T 1/10 takes precedence\)}](#)
  - 1/16 . . involving a high-pressure chamber and a low-pressure chamber communicating with one another, i.e. thermodynamic steam chambers
  - 1/165 . . . [{of disc type}](#)
  - 1/18 . . involving a vacuum chamber
  - 1/20 . with valves controlled by floats
  - 1/22 . . of closed-hollow-body type
  - 1/24 . . . using levers
  - 1/26 . . of upright-open-bucket type
  - 1/28 . . . using levers
  - 1/30 . . of inverted-open-bucket type; of bell type
  - 1/305 . . . [{using levers}](#)
  - 1/32 . . of rocking or tilting type
  - 1/34 . without moving parts other than hand valves, e.g. labyrinth type
  - 1/36 . specially adapted for steam lines of low pressure
  - 1/38 . Component parts; Accessories [{\(valves in general F16K\)}](#)
  - 1/383 . . [{Valve closing members or valve seats}](#)
  - 1/386 . . [{Actuating mechanisms for lift valves}](#)
  - 1/40 . . Actuating mechanisms of ball valves
  - 1/42 . . Actuating mechanisms of slide valves
  - 1/45 . . Means for venting or aerating [\(separate devices therefor F16K 24/00\)](#)
  - 1/48 . . Monitoring arrangements for inspecting, e.g. flow of steam and steam condensate