

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

### F28 HEAT EXCHANGE IN GENERAL

**F28C HEAT-EXCHANGE APPARATUS, NOT PROVIDED FOR IN ANOTHER SUBCLASS, IN WHICH THE HEAT-EXCHANGE MEDIA COME INTO DIRECT CONTACT WITHOUT CHEMICAL INTERACTION** (heat-transfer, heat-exchange or heat-storage materials C09K 5/00; fluid heaters having heat generating means F24H; with an intermediate heat-transfer medium coming into direct contact with heat-exchange media F28D 15/00-F28D 19/00; details of heat-exchange apparatus of general application F28F)

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| <p><b>1/00 Direct-contact trickle coolers, e.g. cooling towers</b><br/>(building construction E04H 5/12; enclosed spaces cooled by trickle F25; component parts of trickle coolers F28F 25/00)</p> <p>1/02 • with counter-current only</p> <p>1/04 • with cross-current only</p> <p>1/06 • with both counter-current and cross-current</p> <p>1/08 • Arrangements for recovering heat from exhaust steam</p> <p>1/10 • Arrangements for suppressing noise [5]</p> <p>1/12 • Arrangements for preventing clogging by frost [3]</p> <p>1/14 • comprising also a non-direct contact heat exchange [3]</p> <p>1/16 • Arrangements for preventing condensation, precipitation or mist formation, outside the cooler (F28C 1/14 takes precedence) [3]</p> <p><b>3/00 Other direct-contact heat-exchange apparatus</b></p> | <p>3/02 • the heat-exchange media both being gases or vapours</p> <p>3/04 • the heat-exchange media both being liquids</p> <p>3/06 • the heat-exchange media being a liquid and a gas or vapour (temperators for cooling steam F22)</p> <p>3/08 • • with change of state, e.g. absorption, evaporation, condensation (generating steam under pressure F22)</p> <p>3/10 • one heat-exchange medium at least being a fluent solid, e.g. a particulate material</p> <p>3/12 • • the heat-exchange medium being a particulate material and a gas, vapour, or liquid</p> <p>3/14 • • • the particulate material moving by gravity, e.g. down a tube</p> <p>3/16 • • • the particulate material forming a bed, e.g. fluidised, on vibratory sieves</p> <p>3/18 • • • the particulate material being contained in rotating drums</p> |
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