

CPC COOPERATIVE PATENT CLASSIFICATION

F28B STEAM OR VAPOUR CONDENSERS (condensation of vapours [B01D 5/00](#); steam engine plants having condensers [F01K](#); liquefaction of gases [F25J](#); details of heat-exchange and heat-transfer arrangements of general application [F28F](#))

1/00 Condensers in which the steam or vapour is separate from the cooling medium by walls, e.g. surface condenser

- 1/02 . using water or other liquid as the cooling medium
- 1/04 . . employing moving walls
- 1/06 . using air or other gas as the cooling medium

NOTE

This group covers also air cooled heat exchangers for which the use as condenser is not explicitly specified, but the configuration is similar to air cooled condensers, e.g. dry cooling towers

- 2001/065 . . {with secondary condenser, e.g. reflux condenser or dephlegmator}

- 1/08 . . employing moving walls

3/00 Condensers in which the steam or vapour comes into direct contact with the cooling medium

- 3/02 . by providing a flowing coating of cooling liquid on the condensing surface
- 3/04 . by injecting cooling liquid into the steam or vapour ([F28B 3/08](#) takes precedence)
- 3/06 . by injecting the steam or vapour into the cooling liquid ([F28B 3/08](#) takes precedence)
- 3/08 . with rotatable members

5/00 Condensers employing a combination of the methods covered by main groups [F28B 1/00](#) and [F28B 3/00](#); Other condensers

7/00 Combinations of two or more condensers, e.g. provision of reserve condenser

9/00 Auxiliary systems, arrangements, or devices

- 9/005 . {for protection against freezing}
- 9/02 . for feeding steam or vapour to condensers
- 9/04 . for feeding, collecting, and storing cooling water or other cooling liquid
- 9/06 . . with provision for re-cooling the cooling water or other cooling liquid
- 9/08 . for collecting and removing condensate
- 9/10 . for extracting, cooling, and removing non-condensable gases

11/00 Controlling arrangements with features specially adapted for condensers (control arrangements in general [G05](#))