

# CPC COOPERATIVE PATENT CLASSIFICATION

## F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

### LIGHTING; HEATING

#### F24 HEATING; RANGES; VENTILATING (NOTE omitted)

#### F24T GEOTHERMAL COLLECTORS; GEOTHERMAL SYSTEMS

##### 10/00 Geothermal collectors

- 10/10 . with circulation of working fluids through underground channels, the working fluids not coming into direct contact with the ground
- 10/13 . . using tube assemblies suitable for insertion into boreholes in the ground, e.g. geothermal probes
- 10/15 . . . using bent tubes; using tubes assembled with connectors or with return headers
- 10/17 . . . using tubes closed at one end, i.e. return-type tubes
- 10/20 . using underground water as working fluid; using working fluid injected directly into the ground, e.g. using injection wells and recovery wells
- 10/30 . using underground reservoirs for accumulating working fluids or intermediate fluids
- 10/40 . operated without external energy sources, e.g. using thermosiphonic circulation or heat pipes
- 2010/50 . {Component parts, details or accessories}
- 2010/53 . . {Methods for installation}
- 2010/56 . . {Control arrangements}

##### 50/00 Geothermal systems (for producing mechanical power from geothermal energy {F03G 7/04})

##### 2201/00 Prediction; Simulation