

CPC COOPERATIVE PATENT CLASSIFICATION

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

LIGHTING; HEATING

F24 HEATING; RANGES; VENTILATING (protecting plants by heating in gardens, orchards, or forests [A01G 13/06](#); baking ovens and apparatus [A21B](#); cooking devices other than ranges [A47J](#); forging [B21J](#), [B21K](#); specially adapted for vehicles, see the relevant subclasses of [B60](#) - [B64](#); combustion apparatus in general [F23](#); drying [F26B](#); ovens in general [F27](#); electric heating elements and arrangements [H05B](#))
(NOTE omitted)

F24T GEOTHERMAL COLLECTORS; GEOTHERMAL SYSTEMS

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|---|----------------|---|
| <p>10/00 Geothermal collectors</p> <p>WARNING</p> <p>Group F24T 10/00 is impacted by reclassification into groups F24T 10/10, F24T 10/30, F24T 10/40, and F24T 50/00.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | <p>10/30</p> | <ul style="list-style-type: none"> • using underground reservoirs for accumulating working fluids or intermediate fluids <p>WARNING</p> <p>Group F24T 10/30 is incomplete pending reclassification of documents from groups F24T 10/00 and F24T 10/10.</p> <p>Group F24T 10/30 is also impacted by reclassification into group F24T 10/40.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| <p>10/10</p> <ul style="list-style-type: none"> • with circulation of working fluids through underground channels, the working fluids not coming into direct contact with the ground <p>WARNING</p> <p>Group F24T 10/10 is incomplete pending reclassification of documents from group F24T 10/00.</p> <p>Group F24T 10/10 is also impacted by reclassification into groups F24T 10/30 and F24T 10/40.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> | <p>10/40</p> | <ul style="list-style-type: none"> • operated without external energy sources, e.g. using thermosiphonic circulation or heat pipes <p>WARNING</p> <p>Group F24T 10/40 is incomplete pending reclassification of documents from groups F24T 10/00, F24T 10/10, and F24T 10/30.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p> |
| <p>10/13</p> <ul style="list-style-type: none"> • . . using tube assemblies suitable for insertion into boreholes in the ground, e.g. geothermal probes | <p>2010/50</p> | <ul style="list-style-type: none"> • {Component parts, details or accessories} <p>WARNING</p> <p>Group F24T 50/00 is incomplete pending reclassification of documents from group F24T 10/00.</p> <p>Groups F24T 10/00 and F24T 50/00 should be considered in order to perform a complete search.</p> |
| <p>10/15</p> <ul style="list-style-type: none"> • . . . using bent tubes; using tubes assembled with connectors or with return headers | | |
| <p>10/17</p> <ul style="list-style-type: none"> • . . . using tubes closed at one end, i.e. return-type tubes | | |
| <p>10/20</p> <ul style="list-style-type: none"> • using underground water as working fluid; using working fluid injected directly into the ground, e.g. using injection wells and recovery wells | | |
| | <p>2010/53</p> | <ul style="list-style-type: none"> • . . {Methods for installation} |
| | <p>2010/56</p> | <ul style="list-style-type: none"> • . . {Control arrangements} |

F24T

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

WARNING

Group [F24T 50/00](#) is incomplete pending reclassification of documents from group [F24T 10/00](#).

Groups [F24T 10/00](#) and [F24T 50/00](#) should be considered in order to perform a complete search.

2201/00 **Prediction; Simulation**