

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

### F24 HEATING; RANGES; VENTILATING

**F24J PRODUCTION OR USE OF HEAT NOT OTHERWISE PROVIDED FOR** (materials therefor C09K 5/00; engines or other mechanisms for producing mechanical power from heat, see the relevant classes, e.g. F03G for using natural heat)

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|------|---|------|--|
| 1/00 | <p><b>Apparatus or devices using heat produced by exothermal chemical reactions other than by combustion</b> (for cooking-vessels A47J 36/28; self-heating compresses A61F 7/03; materials for the production of heat or cold undergoing non-reversible chemical reactions, other than by combustion, when used C09K 5/18) [1, 2006.01]</p>   | 2/20 | <ul style="list-style-type: none"> <li>• • the working fluid being conveyed between plates [4, 2006.01]</li> </ul>   |
| 2/00 | <p><b>Use of solar heat, e.g. solar heat collectors</b> (distillation or evaporation of water using solar energy C02F 1/14; roof covering aspects of energy collecting devices E04D 13/18; devices for producing mechanical power from solar energy F03G 6/00; semiconductor devices specially adapted for converting solar energy into electrical energy H01L 31/00; photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy H01L 31/0525; PV modules including means associated with the PV module to utilise heat energy H02S 40/44) [4, 5, 2006.01, 2014.01]</p> <p><u>Note(s) [2014.01]</u></p> <p>Supporting structures also intended for use with photovoltaic modules should further be classified in the relevant groups of subclass H02S.</p> | 2/22 | <ul style="list-style-type: none"> <li>• • • having extended surfaces, e.g. protrusions, corrugations (F24J 2/28 takes precedence) [4, 2006.01]</li> </ul>   |
| 2/02 | <ul style="list-style-type: none"> <li>• Solar heat collectors with support for article heated, e.g. stoves, ranges, crucibles, furnaces or ovens using solar heat [4, 2006.01]</li> </ul>  | 2/23 | <ul style="list-style-type: none"> <li>• • the working fluid trickling freely over collector elements [6, 2006.01]</li> </ul>  |
| 2/04 | <ul style="list-style-type: none"> <li>• Solar heat collectors having working fluid conveyed through collector [4, 2006.01]</li> </ul>  | 2/24 | <ul style="list-style-type: none"> <li>• • the working fluid being conveyed through tubular heat absorbing conduits [4, 2006.01]</li> </ul>  |
| 2/05 | <ul style="list-style-type: none"> <li>• • surrounded by a transparent enclosure, e.g. evacuated solar collectors [6, 2006.01]</li> </ul>   | 2/26 | <ul style="list-style-type: none"> <li>• • • having extended surfaces, e.g. protrusions (F24J 2/28 takes precedence) [4, 2006.01]</li> </ul>   |
| 2/06 | <ul style="list-style-type: none"> <li>• • having concentrating elements (optical elements or systems <u>per se</u> G02B) [4, 2006.01]</li> </ul>   | 2/28 | <ul style="list-style-type: none"> <li>• • having permeable mass, foraminous or porous materials [4, 2006.01]</li> </ul>   |
| 2/07 | <ul style="list-style-type: none"> <li>• • • Receivers working at high temperature, e.g. for solar power plants [6, 2006.01]</li> </ul>   | 2/30 | <ul style="list-style-type: none"> <li>• • with means to exchange heat between plural fluids [4, 2006.01]</li> </ul>   |
| 2/08 | <ul style="list-style-type: none"> <li>• • • having lenses as concentrating elements [4, 2006.01]</li> </ul>  | 2/32 | <ul style="list-style-type: none"> <li>• • having evaporator and condenser section, e.g. heat pipe [4, 2006.01]</li> </ul>   |
| 2/10 | <ul style="list-style-type: none"> <li>• • • having reflectors as concentrating elements [4, 2006.01]</li> </ul>  | 2/34 | <ul style="list-style-type: none"> <li>• • having heat storage mass [4, 2006.01]</li> </ul>  |
| 2/12 | <ul style="list-style-type: none"> <li>• • • • parabolic [4, 2006.01]</li> </ul>  | 2/36 | <ul style="list-style-type: none"> <li>• Rollable or foldable collector units [4, 2006.01]</li> </ul>  |
| 2/13 | <ul style="list-style-type: none"> <li>• • • • hemispherical [6, 2006.01]</li> </ul>  | 2/38 | <ul style="list-style-type: none"> <li>• employing tracking means (F24J 2/02, F24J 2/06 take precedence; rotary supports or mountings therefor F24J 2/54; supporting structures of photovoltaic modules for generation of electric power specially adapted for solar tracking systems H02S 20/32) [4, 2006.01, 2014.01]</li> </ul> |
| 2/14 | <ul style="list-style-type: none"> <li>• • • • semi-cylindrical or cylindro-parabolic [4, 2006.01]</li> </ul>   | 2/40 | <ul style="list-style-type: none"> <li>• Control arrangements [4, 2006.01]</li> </ul>  |
| 2/15 | <ul style="list-style-type: none"> <li>• • • • conical [6, 2006.01]</li> </ul>  | 2/42 | <ul style="list-style-type: none"> <li>• Solar heat systems not otherwise provided for [4, 2006.01]</li> </ul>   |
| 2/16 | <ul style="list-style-type: none"> <li>• • • • having flat plates [4, 2006.01]</li> </ul>   | 2/44 | <ul style="list-style-type: none"> <li>• • having thermosiphonic circulation [4, 2006.01]</li> </ul>   |
| 2/18 | <ul style="list-style-type: none"> <li>• • • • spaced, opposed interacting reflecting surfaces [4, 2006.01]</li> </ul>  | 2/46 | <ul style="list-style-type: none"> <li>• Component parts, details or accessories of solar heat collectors [4, 2006.01]</li> </ul>  |
|      |   | 2/48 | <ul style="list-style-type: none"> <li>• • characterised by the absorber material [4, 2006.01]</li> </ul>  |
|      |   | 2/50 | <ul style="list-style-type: none"> <li>• • Transparent coverings [4, 2006.01]</li> </ul>   |
|      |   | 2/51 | <ul style="list-style-type: none"> <li>• • Thermal insulation (F24J 2/50 takes precedence) [6, 2006.01]</li> </ul>   |
|      |   | 2/52 | <ul style="list-style-type: none"> <li>• • Arrangement of mountings or supports [4, 2006.01]</li> </ul>  |
|      |   | 2/54 | <ul style="list-style-type: none"> <li>• • • specially adapted for rotary movement [6, 2006.01]</li> </ul>   |
|      |   | 3/00 | <p><b>Other production or use of heat, not derived from combustion</b> (use of solar heat F24J 2/00) [1, 2006.01]</p>  |
|      |   | 3/06 | <ul style="list-style-type: none"> <li>• using natural heat [4, 2006.01]</li> </ul>  |
|      |   | 3/08 | <ul style="list-style-type: none"> <li>• • using geothermal heat (devices for producing mechanical power from geothermal energy F03G 4/00) [4, 5, 2006.01]</li> </ul>  |