

Title (en)
SOLAR COLLECTOR ELEMENT

Title (de)
SONNENKOLLEKTORELEMENT

Title (fr)
ÉLÉMENT COLLECTEUR SOLAIRE

Publication
EP 1880148 A1 20080123 (EN)

Application
EP 06733127 A 20060510

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Abstract (en)
[origin: WO2006121345A1] A solar collector element comprises a wooden frame (3) having longitudinal frame members (5) and cross members (6, 7) which are fastened to a back panel (4). The insulating material (8) is inserted in the frame between the cross members. Located on top of the cross members (6, 7) and the insulating material (8) is a pipe coil (10) which has a plurality of lengths of pipe (11) that run substantially horizontally at a small angle to each other, and each is provided with a heat-absorbing aluminium plate (12, 13) which, with one (14) of its longitudinal edge portions, surrounds the respective length of pipe (11). The outward side of the framework (3) is covered by a panel, preferably a corrugated panel (20) of polycarbonate. When using solar collectors (1) for dwelling houses, several such solar collector elements are placed adjacent to each other and connected in series, optionally so as to cover most of the height of the roof between the gutter and the ridge. In such cases, all the solar collector elements are covered by a single large panel (2) in order to provide an outer roof which has no joins that could leak and off which snow can easily slide. The solar collector elements will be easy to handle and mount, and they will be able to provide a large, efficient and reliable solar collector surface at relatively modest costs.

IPC 8 full level
F24J 2/04 (2006.01); **F24J 2/46** (2006.01); **F24J 2/50** (2006.01); **F24S 10/70** (2018.01); **F24S 10/75** (2018.01)

IPC 8 main group level
F24J (2006.01)

CPC (source: EP US)
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