

Title (en)
SOLAR HEATING SYSTEM

Title (de)
SOLARHEIZSYSTEM

Title (fr)
SYSTÈME DE CHAUFFAGE SOLAIRE

Publication
EP 4007872 A1 20220608 (EN)

Application
EP 19780323 A 20190927

Priority
• GB 201910997 A 20190801
• GB 2019052749 W 20190927

Abstract (en)
[origin: GB2586062A] A solar heating system 1 has a lens array 3 which includes at least one lens assembly 9. The lens assembly has a supporting substrate 11 and a film 13 applied to a surface of the supporting substrate. At least one lens 9 is formed within the film, and a tubular receiver 5 which carries a fluid, is located at a focal point of the at least one lens. A frame 17,19 for supporting the lens array can pivot about a first axis (Z-Z) arranged coaxial with the tubular receiver and can move about a second axis arranged perpendicular to the tubular receiver. The lens array may be a Fresnel lens array, and the film may be a plastics material, such as Polymethyl methacrylate (PMMA). The arrangement produces steam and/or hot water in an efficient and cost-effective manner.

IPC 8 full level
F24S 10/40 (2018.01); **F24S 23/30** (2018.01); **F24S 30/00** (2018.01); **F24S 30/452** (2018.01); **F24S 40/80** (2018.01); **F24S 80/00** (2018.01)

CPC (source: EP GB)
F24S 10/00 (2018.04 - GB); **F24S 10/45** (2018.04 - EP); **F24S 20/00** (2018.04 - GB); **F24S 20/50** (2018.04 - EP GB);
F24S 23/30 (2018.04 - EP GB); **F24S 30/00** (2018.04 - GB); **F24S 30/455** (2018.04 - EP); **F24S 30/458** (2018.04 - GB);
F24S 50/00 (2018.04 - GB); **F24S 23/31** (2018.04 - EP); **F24S 40/85** (2018.04 - EP); **F24S 60/30** (2018.04 - EP); **F24S 2020/17** (2018.04 - GB);
F24S 2020/23 (2018.04 - EP); **F24S 2030/115** (2018.04 - EP); **F24S 2030/132** (2018.04 - EP); **F24S 2030/16** (2018.04 - EP);
Y02E 10/44 (2013.01 - EP); **Y02E 10/47** (2013.01 - EP); **Y02P 90/50** (2015.11 - EP)

Citation (search report)
See references of WO 2021019198A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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GB 201910997 D0 20190918; **GB 2586062 A 20210203**; **GB 2586062 B 20231101**; EP 4007872 A1 20220608; GB 202011917 D0 20200916;
GB 202312959 D0 20231011; GB 2589670 A 20210609; GB 2589670 B 20231108; GB 2618930 A 20231122; GB 2618930 B 20240612;
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GB 201910997 A 20190801; EP 19780323 A 20190927; GB 2019052749 W 20190927; GB 2020051839 W 20200731;
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