

Title (en)

Viscous heater

Title (de)

Wärmeerzeuger mit viskoser Flüssigkeit

Title (fr)

Générateur de chaleur à fluide visqueux

Publication

EP 0811812 A3 19980520 (EN)

Application

EP 97108847 A 19970603

Priority

JP 14193896 A 19960604

Abstract (en)

[origin: EP0811812A2] A viscous heater capable of obtaining a quick warming up of a heating system for a vehicle. The viscous heater is provided with a heat generating chamber 7 and a rotor 12 arranged in the heat generating chamber 7 so that a heat generating gap, for holding therein a silicone oil as a viscous fluid, is formed between an inner surface of the heat generating chamber and an outer surface of the rotor. A width of the heat generating gap has, at least at one side of the rotor, a larger value (T) at a central area of the gap over that (t) at the peripheral area of the gap.
<IMAGE>

IPC 1-7

F24J 3/00

IPC 8 full level

B60H 1/08 (2006.01); **F24J 3/00** (2006.01)

CPC (source: EP)

F24V 40/00 (2018.04)

Citation (search report)

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- [Y] EP 0361053 A2 19900404 - BOSCH GMBH ROBERT [DE]
- [XA] DE 9418815 U1 19950713 - PLETZER FRANZ [AT]
- [A] US 4030406 A 19770621 - WANDER RAOUL, et al
- [A] US 4664068 A 19870512 - KRETCHMAR MONTE R [US], et al

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0811812 A2 19971210; EP 0811812 A3 19980520; EP 0811812 B1 20020320; DE 69711119 D1 20020425; DE 69711119 T2 20020829; JP 3458989 B2 20031020; JP H09323530 A 19971216

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