

Title (en)
CFC radiant heater

Title (de)
CFC-Heizstrahler

Title (fr)
Element chauffant par rayonnement en carbone renforcé par des fibres de carbone

Publication
EP 1667489 A2 20060607 (DE)

Application
EP 05025398 A 20051122

Priority
DE 102004058077 A 20041201

Abstract (en)
The heater has a carbon heating component (1) in a housing that is transparent to IR radiation. The component is a carbon fiber-reinforced carbon (CFC) web arranged in a plane and between base and cover plates, where one of the plates being partially transparent to IR radiation. The base plate is made of opaque quartz glass, and welded to the cover plate, where the base plate is reflective for IR radiation. An independent claim is also included for a method for producing an IR radiant heater.

IPC 8 full level
H05B 3/14 (2006.01)

CPC (source: EP KR US)
H05B 3/14 (2013.01 - KR); **H05B 3/145** (2013.01 - EP US); **H05B 2203/032** (2013.01 - EP US)

Citation (applicant)
• EP 0881858 A2 19981202 - EA TECH LTD [GB]
• DE 4438871 A1 19960509 - HERAEUS NOBLELIGHT GMBH [DE]
• DE 4419285 A1 19951207 - HERAEUS NOBLELIGHT GMBH [DE]
• JP H07161725 A 19950623 - SUMITOMO OSAKA CEMENT CO LTD
• EP 0899777 B1 20040929 - TOSHIBA CERAMICS CO [JP]
• US 6584279 B2 20030624 - SEKO SUNAO [JP], et al

Cited by
EP3182794B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1667489 A2 20060607; **EP 1667489 A3 20060719**; **EP 1667489 B1 20080319**; AT E390030 T1 20080415; CN 1784086 A 20060607; CN 1784086 B 20100505; DE 102004058077 A1 20060608; DE 502005003294 D1 20080430; JP 2006164974 A 20060622; KR 20060061242 A 20060607; US 2006115244 A1 20060601; US 8655160 B2 20140218

DOCDB simple family (application)
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