

Title (en)
Infra-red radiating device and process for heating articles to be treated

Title (de)
Infrarotstrahler und Verfahren zur Erwärmung eines Behandlungsgutes

Title (fr)
Radiateur infrarouge et procédé de chauffage de produits à traiter

Publication
EP 1039780 B1 20070613 (DE)

Application
EP 00104297 A 20000302

Priority
DE 19912544 A 19990319

Abstract (en)
[origin: EP1039780A1] The radiator has a closed envelope tube (1) enclosing a carbon strip emission source (2) with connections to a power supply. The length of the carbon strip is greater than the radiation length (B) by a factor of at least 1.5. The carbon strip can be formed into a spiral shape or a concertina shape. An Independent claim is also included for a method of heating an object.

IPC 8 full level
H05B 3/00 (2006.01); **H05B 3/10** (2006.01); **H01K 1/06** (2006.01); **H01K 1/14** (2006.01); **H05B 3/14** (2006.01); **H05B 3/44** (2006.01)

CPC (source: EP US)
H01K 1/06 (2013.01 - EP US); **H01K 1/14** (2013.01 - EP US); **H05B 3/0057** (2013.01 - EP US); **H05B 3/009** (2013.01 - EP US);
H05B 2203/032 (2013.01 - EP US)

Citation (examination)
EP 0987923 A1 20000322 - HERAEUS NOBLELIGHT GMBH [DE]

Cited by
EP2763497A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 1039780 A1 20000927; EP 1039780 B1 20070613; AT E364981 T1 20070715; DE 19912544 A1 20000928; DE 19912544 B4 20070118;
DE 50014397 D1 20070726; JP 2000299178 A 20001024; US 2003076024 A1 20030424; US 6534904 B1 20030318; US 6765339 B2 20040720

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EP 00104297 A 20000302; AT 00104297 T 20000302; DE 19912544 A 19990319; DE 50014397 T 20000302; JP 2000074504 A 20000316;
US 30161202 A 20021122; US 51694000 A 20000301