

Title (en)
Radiant heating element.

Title (de)
Strahlungs-Heizkörper.

Title (fr)
Élément chauffant radiant.

Publication
EP 0371295 A2 19900606 (DE)

Application
EP 89120765 A 19891109

Priority
DE 3840360 A 19881130

Abstract (en)
[origin: JPH02189884A] PURPOSE: To set a starting current in a light radiator to be at an allowable value in all output range by providing a braking device to be temporarily operated for temporarily controlling the activity of the light radiator. CONSTITUTION: After a radiant element is current-conducted, an output control contact 28 and the contact of a temperature limiter 20 are closed but a contact 24 is open because of the low internal resistance of a light radiator 15. The existence of two resistances 18, 21 connected to the upstream sides leaves an allowable current to be still at an allowable value despite of the low resistance of the light radiator 15. The light radiator 15 is usually heated in about two seconds and its resistance value is increased to almost ten times, so that voltage drop is caused to operate a brake switching device. For example, the contact 24 is closed. For such a reason, the resistance 21 is bridge-connected and the light radiator 15 is connected in series to a dark radiator 18. If a bimetal 29 is heated and the output contact 28 is open, the voltage of the switching device 22 is dropped down to zero. So, the contact 24 is open. These operations are repeated.

Abstract (de)
Ein Strahlungs-Heizkörper (11) enthält einen Hellstrahler, beispielsweise eine im wesentlichen kreisförmige Halogen-Röhrenglühlampe (15) und einen Dunkelstrahler (18) in Form üblicher offener elektrischer Strahlheizwendeln. Zur Dämpfung des hohen Einschaltstromes des Hellstrahlers (15) ist ein Dämpfungswiderstand (21) diesem in Reihe vorgeschaltet, und zwar während der Anheizphase des Hellstrahlers (15). Nach Ansteigen des Widerstandes des Hellstrahlers infolge seiner Erwärmung bzw. nach einem gewissen Zeitablauf schaltet eine Dämpfungsschaltanordnung (22) den Vorwiderstand durch Kurzschließen ab.

IPC 1-7
H05B 3/00; H05B 3/74

IPC 8 full level
H05B 3/74 (2006.01); **H05B 3/00** (2006.01); **H05B 3/72** (2006.01)

CPC (source: EP KR US)
G03G 15/20 (2013.01 - KR); **H05B 3/72** (2013.01 - EP US); **H05B 3/74** (2013.01 - KR)

Cited by
FR2669803A1; EP2315493A1; EP2315493B1

Designated contracting state (EPC)
AT CH DE ES FR GB GR IT LI SE

DOCDB simple family (publication)
EP 0371295 A2 19900606; EP 0371295 A3 19910821; EP 0371295 B1 19960117; AT E133311 T1 19960215; AU 4549889 A 19900607; AU 626943 B2 19920813; DE 3840360 A1 19900531; DE 58909575 D1 19960229; ES 2081828 T3 19960316; JP H02189884 A 19900725; KR 900008348 A 19900604; US 5004892 A 19910402; YU 224189 A 19920907

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EP 89120765 A 19891109; AT 89120765 T 19891109; AU 4549889 A 19891123; DE 3840360 A 19881130; DE 58909575 T 19891109; ES 89120765 T 19891109; JP 30678189 A 19891128; KR 890017240 A 19891127; US 44355989 A 19891129; YU 224189 A 19891124