

Title (en)  
HEATER AND METHOD FOR MANUFACTURING HEATER

Title (de)  
ERHITZER UND VERFAHREN ZUR HERSTELLUNG DES ERHITZERS

Title (fr)  
CHAUFFAGE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 3461227 A1 20190327 (EN)**

Application  
**EP 18160259 A 20180306**

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Abstract (en)  
According to one embodiment, a heater (1) includes a light emitting tube (2), a multilayer film (3), a metal foil (12), a lead wire (20), an external lead-in wire (8), a sealing portion (2a), a covering tube (6), a clasp (4), and a filler (19). The light emitting tube (2) is provided with a heating body (10) on an inside thereof. The multilayer film (3) is formed on an outer peripheral surface of the light emitting tube (2). The metal foil (12) is electrically connected to the heating body (10) and the lead wire (20). The external lead-in wire (8) includes a connecting portion (21) connected to the lead wire (20). The metal foil (12) and a part of the lead wire (20) are embedded in the sealing portion (2a). The sealing portion (2a) includes a lead-out portion (11) through which the lead wire (20) is drawn out to an outside of the light emitting tube (2). The covering tube (6) covers the external lead-in wire (8) and the lead wire (20) which is drawn out from the lead-out portion (11). The clasp (4) includes an opening portion (14), an accommodating portion (15), and a through-hole (16). The filler (19) contains 85% by mass or more of alumina and a portion between the sealing portion (2a) and the accommodating portion (15), and a portion between the external lead-in wire (8) and the through-hole (16) are filled with the filler (19) so as to close the opening portion (14) and the through-hole (16) of the clasp (4).

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Citation (search report)

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- [A] US 2007098377 A1 20070503 - KONISHI MASANORI [JP], et al
- [A] GB 792577 A 19580402 - GEN ELECTRIC
- [A] EP 1619931 A1 20060125 - LG ELECTRONICS INC [KR]
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