

Title (en)
INCANDESCENT LAMP WITH A REFLECTING COATING

Title (de)
GLÜHLAMPE MIT REFLEXIONSSCHICHT

Title (fr)
LAMPE A INCANDESCENCE A COUCHE DE REFLEXION

Publication
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Application
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Abstract (en)
[origin: US6160341A] PCT No. PCT/DE98/00149 Sec. 371 Date Sep. 11, 1998 Sec. 102(e) Date Sep. 11, 1998 PCT Filed Jan. 19, 1998 PCT Pub. No. WO98/32157 PCT Pub. Date Jul. 23, 1998An electric incandescent lamp with a rotationally symmetrical lamp bulb and an IR radiation reflecting coating has an ellipsoidal partial contour. The ellipsoidal partial contour of the lamp bulb is produced by an elliptical section, the semiaxis of which is oriented vertically to the longitudinal axis, i.e., vertically to the rotational axis of the lamp bulb, and is longer than the greatest radius of the lamp bulb. The length of the smallest semiaxis lies preferably in the range of $R < b < R + 5xw_x$, wherein R and w_x denote the largest radius of the lamp bulb and the radius of the rotational symmetrical luminous element, respectively. The lamp is characterized by uniform back reflection of IR radiation onto the luminous element arranged centrally inside the lamp bulb, and thus by a uniform temperature distribution and increased efficiency.

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H01K 1/28

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