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HANAFUSA et al.(10) **Pub. No.: US 2024/0237155 A1**(43) **Pub. Date: Jul. 11, 2024**(54) **ELECTRIC HEATING DEVICE****Publication Classification**(71) Applicant: **KANKEN TECHNO CO.,LTD.**, Kyoto
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ABSTRACT

An electric heating device includes: a radiant tube made of metal; a plurality of heater wires disposed in the radiant tube so as to be parallel to each other; a heater fixing shaft disposed on a center axis line of the radiant tube, the heater fixing shaft having a surface covered by an insulator; and disk-shaped ceramic insulators mounted to the heater fixing shaft at predetermined intervals so as to support the heater wires. A center hole in which the heater fixing shaft is inserted penetrates through each ceramic insulator at a center thereof, and heater wire holding holes that are equally spaced on a circumference concentric with the center hole penetrate through each ceramic insulator.

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