

Title (en)

INDUCTION RANGE INCLUDING AN AIR LAYER FOR IMPROVING HEAT RESISTANCE AND SHOCK RESISTANCE

Title (de)

INDUKTIONSBEREICH MIT EINER LUFTSCHICHT FÜR ERHÖhte WÄRMEBESTÄNDIGKEIT UND SCHLAGFESTIGKEIT

Title (fr)

CUISINIÈRE À INDUCTION COMPRENANT UNE COUCHE D'AIR POUR AMÉLIORER LA RÉSISTANCE THERMIQUE ET LA RÉSISTANCE AUX CHOCS

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Application

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Abstract (en)

The present invention relates to an induction heating range with improved thermal resistance and impact resistance and, more particularly, to an induction heating range, which can prevent electronic devices inside the heating range from being damaged or malfunctioning due to heat transferred into the heating range from a heating target that receives heat in use of the induction heating range, thereby improving thermal resistance and impact resistance. The induction heating range includes an upper body including an upper plate exposed outside to provide a seating surface for a heating target to be heated by electromagnetic induction, a lower plate separated from the upper plate, and a support protrusion interposed between the upper plate and the lower plate, the upper body having an air layer formed by the upper and lower plates and the support protrusion to block heat transfer; and a lower body including a housing supporting a lower side of the upper body, a coil formed inside the housing and generating an electromagnetic field upon application of voltage to the coil, and a controller controlling generation of the electromagnetic field in the coil.

IPC 8 full level

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