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(54) **TRANSPARENT HEATING ELEMENT, HEATING ELEMENT WITH COVER, SENSOR DEVICE,
AND MOBILE OBJECT**

(57) A transparent heating element to be disposed
to face a sensor, comprising: a pair of bus bars spaced
apart from each other in a first direction; and a plurality
of coupling conductors coupling the pair of bus bars;
wherein: the coupling conductors are arranged in a sec-
ond direction not parallel to the first direction; and the
coupling conductor is folded back at least twice in the
first direction; each coupling conductor includes at least
three linear portions that extend in the first direction and
are arranged in the second direction, and a connection

portion that connects two of the linear portions; the con-
nection portion connects two of the linear portions adja-
cent to each other in the second direction; the bus bar is
formed in a mesh pattern with a plurality of openings; the
mesh pattern is formed by disposing a plurality of linear
conductors; and the linear conductor has a curved line
shape, a shape in which a straight line and a curve line
are combined, or a shape in which arcs are combined in
the planar view.

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