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(54) **COOKING APPLIANCE AND METHOD FOR
OPERATING THE SAME**

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(57) **ABSTRACT**

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A cooking appliance can include a first temperature sensor; a second temperature sensor; an analog switch configured to select one of a sensing value of the first temperature sensor and a sensing value of the second temperature sensor as a selected sensing value; and a processor configured to receive the selected sensing value from the analog switch, and apply the selected sensing value to at least one temperature prediction function and generate a predicted temperature based on an output of the at least one temperature prediction function. Also, the cooking appliance can include an upper plate configured to support an object to be heated, and a working coil configured to generate magnetic fields for heating the object.

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