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(54) **FOOD GRINDER WITH AUTOMATIC OFF CONTROLLER AND METHOD**

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CPC *A47J 42/44* (2013.01)

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CPC B24B 49/003; B02C 25/00; A47J 42/44
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See application file for complete search history.

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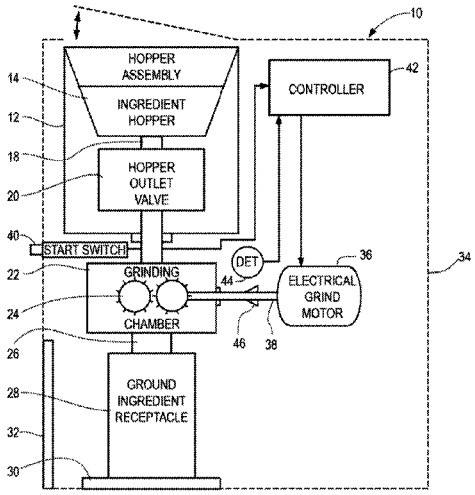
(57) **ABSTRACT**

A food grinder (**10**) makes a sound or vibrates with a frequency that changes between a first mode when the grinding mechanism (**22**, **24**, **36**) is performing a grinding operation while there is bulk food ingredient within the grinding chamber, and a second mode when the grinding mechanism (**22**, **24**, **36**) is performing a grinding operation while there is no bulk food ingredient within the grinding chamber, has a detector (**44**) for sensing the change in frequency and a controller (**42**) responsive to the detector (**44**) for controlling the application of electrical power to the grinding mechanism (**22**, **24 36**). Power is first applied when a start grind switch is manually actuated and is later automatically removed in response to a timer (**54**) a preselected time period after the detector senses that the grinding chamber is empty of bulk food ingredient to be ground.

27 Claims, 3 Drawing Sheets