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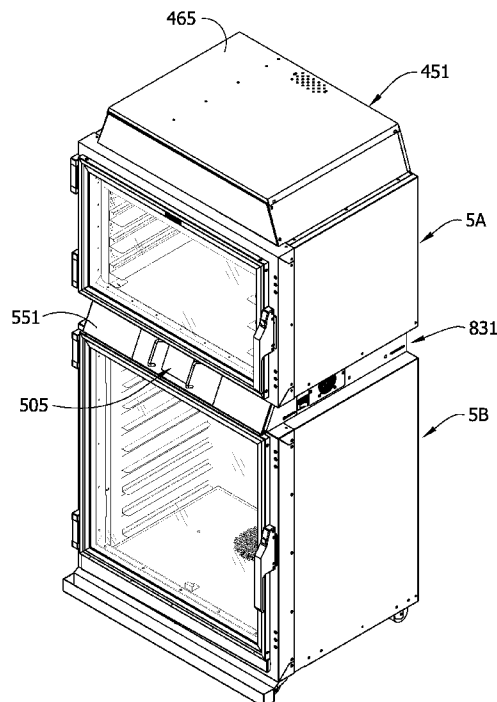
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[Continued on next page]

(54) Title: CONVECTION OVEN

FIG. 20



(57) Abstract: A convection oven having a vapor collection system; water injection system; easily accessible electrical components; and a variable-speed, reversible blower is disclosed. The vapor collection system collects vapor from the cooking chamber during a cooking event, condenses the vapor, and drains the condensed vapor. The water injection system injects water for impact against a blower wheel for dispersion into the air circulating through the cooking chamber. The electrical components are housed within a housing that in a closed position conceals the components and in a closed position exposes the components for easy access. The rotational speed and direction of the variable-speed, reversible blower is controlled during a cooking event according to predetermined speed curves which may include one or more reversal events to achieve more uniform cooking of food. A main controller is programmable via an operator input (e.g., liquid crystal display touch screen) to control operating parameters of the oven.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F24C 15/32 (2009.01)

USPC - 126/21A

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A21B 1/00, 1/26, 1/40; F24C 15/02, 15/32 (2009.01)

USPC - 126/21A, 21R; 165/918; 219/391, 401

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,172,682 A (LUEBKE et al) 22 December 1992 (22.12.1992) entire document	1-5
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Y		6-45
Y	US 6,257,128 B1 (CHEN) 10 July 2001 (10.07.2001) entire document	6-10
Y	US 4,587,946 A (DOYON et al) 13 May 1986 (13.05.1986) entire document	9-10, 23-24, 39-40
Y	US 6,342,262 B1 (WUEST) 29 January 2002 (29.01.2002) entire document	11-24
Y	US 5,301,652 A (WILLIS et al) 12 April 1994 (12.04.1994) entire document	14-16
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