

EXHIBIT 1

United States Patent [19]

[11] **Patent Number:** **5,803,377**

Farrell

[45] **Date of Patent:** **Sep. 8, 1998**

[54] **APPARATUS AND METHOD FOR MAKING FROZEN DRINKS**

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[73] Assignee: **f*Real! Foods, LLC**, Orinda, Calif.

[21] Appl. No.: **794,859**

[22] Filed: **Feb. 5, 1997**

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Related U.S. Application Data

[62] Division of Ser. No. 649,534, May 17, 1996.

[51] **Int. Cl.⁶** **B02C 19/12**

[52] **U.S. Cl.** **241/36; 241/46.17; 241/199.12; 241/292.1**

[58] **Field of Search** 241/33, 36, 38, 241/46.17, 57, 199.12, 292.1

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Primary Examiner—John M. Husar
Attorney, Agent, or Firm—Limbach & Limbach L.L.P.

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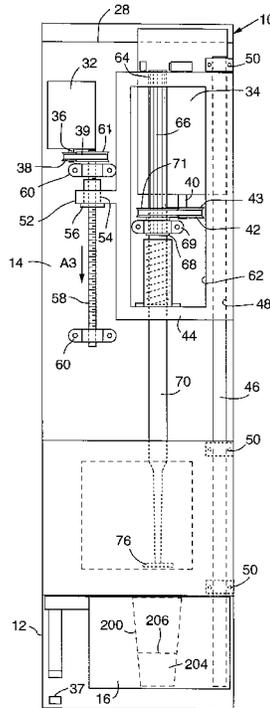
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[57] **ABSTRACT**

The present invention is a frozen drink machine and a method for making frozen drinks from a frozen substance which has been frozen into a cup. According to the method and the machine of the present invention, a cup containing a frozen substance is positioned in a cup support located in the frozen drink machine. A rotatable blade having features for grinding the frozen substance and for aerating the ground frozen substance is lowered into the cup, grinding the frozen substance while a liquid is simultaneously introduced into the cup. In an alternative embodiment, a second blade is provided which incorporates air into the liquid before the liquid is introduced into the cup.

27 Claims, 13 Drawing Sheets



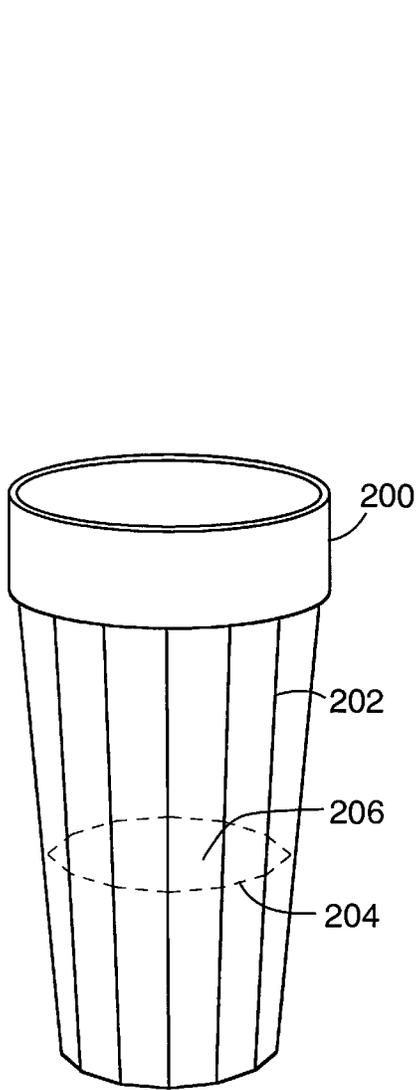


FIG. 1

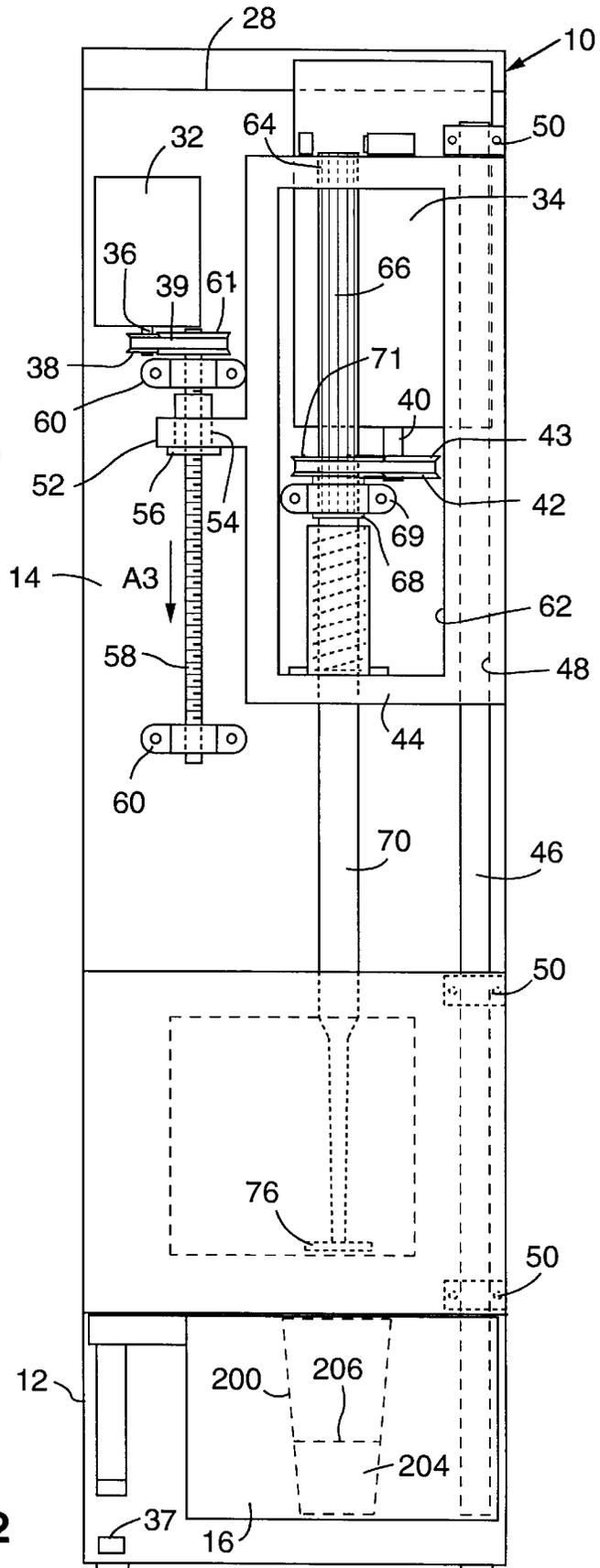
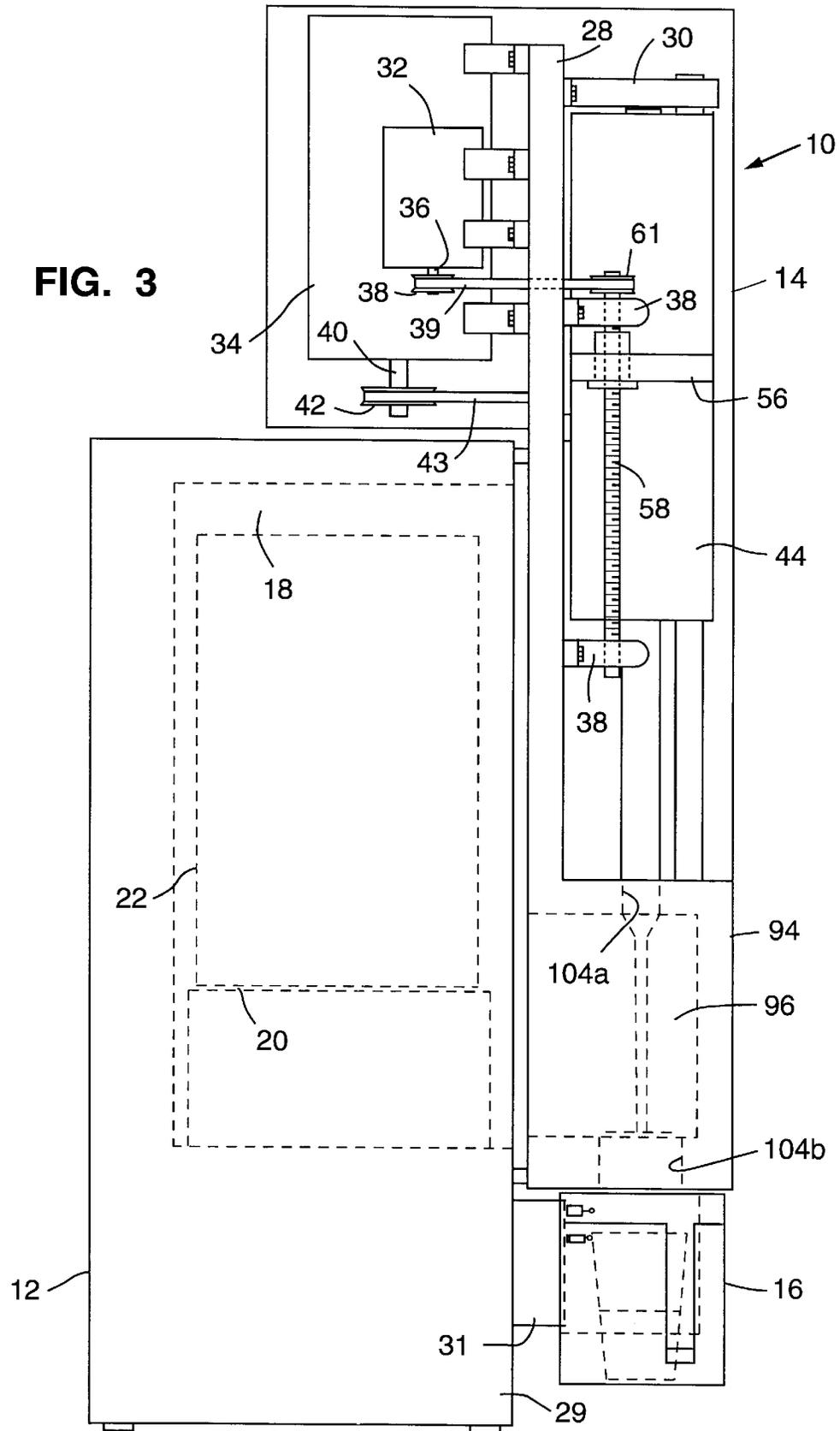


FIG. 2



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