

EXHIBIT 1022:

U.S. PATENT NUMBER 6,321,931 TO HAKIM. (“HAKIM (‘931)”)

Munchkin, Inc. & Toys “R” Us, Inc.: 1022



US006321931B1

(12) **United States Patent**  
**Hakim et al.**

(10) **Patent No.:** **US 6,321,931 B1**  
(45) **Date of Patent:** **\*Nov. 27, 2001**

(54) **NO-SPILL DRINKING CUP APPARATUS**

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(\* ) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/138,588**

(22) Filed: **Aug. 22, 1998**

**Related U.S. Application Data**

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(51) **Int. Cl.** ..... **A61J 9/00**

(52) **U.S. Cl.** ..... **220/714; 215/11.4; 215/387**

(58) **Field of Search** ..... **220/714, 717; 215/11.4, 11.5, 387**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,213,236	5/1993	Brown et al. .
5,339,995	8/1994	Brown et al. .
5,377,877	1/1995	Brown et al. .
5,409,144	4/1995	Brown et al. .

5,439,143	8/1995	Brown et al. .	
5,607,073	* 3/1997	Forrer .....	220/714
5,651,471	* 7/1997	Green .....	220/714
5,706,973	* 1/1998	Robbin, III et al. ....	220/714
5,839,614	11/1998	Rossbach et al. .	
5,890,619	* 4/1999	Balanger .....	220/714
5,890,620	* 4/1999	Beldastro .....	220/714
5,890,621	* 4/1999	Bachman et al. ....	220/714
5,897,013	4/1999	Maganiello .	

\* cited by examiner

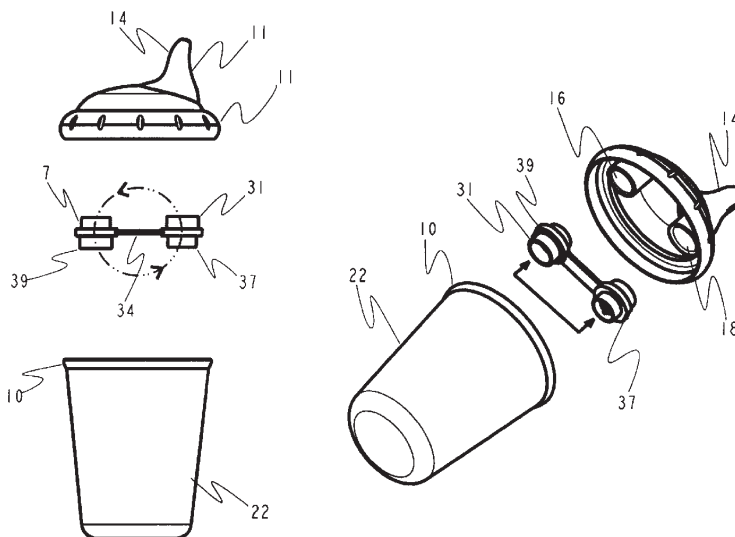
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(57) **ABSTRACT**

An improved no-spill cup construction and valve assembly which provides an extremely secure seal against accidental liquid flow from the cup spout. The act of sucking at the cup spout creates negative pressure or a partial vacuum against a valve near the spout, causing the valve to invert which unblocks an opening in the valve. When the opening is unblocked, liquid can flow freely through the valve and spout. When not in use, the valve sits in a resting, closed position, with the valve pressed against a center seal-off, sealing off the opening in the valve assembly. The closed position provides an extremely secure seal against fluid leakage, such that inadvertent spills or even deliberate attempts to force liquid outside of the cup, such as by turning the cup upside down, or shaking the cup, are ineffective. The cup assembly further allows liquid flow to be regulated between regular or maximum flow and minimal flow levels or rates by rotating the position of the valve assembly in the cover of the cup.

**29 Claims, 14 Drawing Sheets**



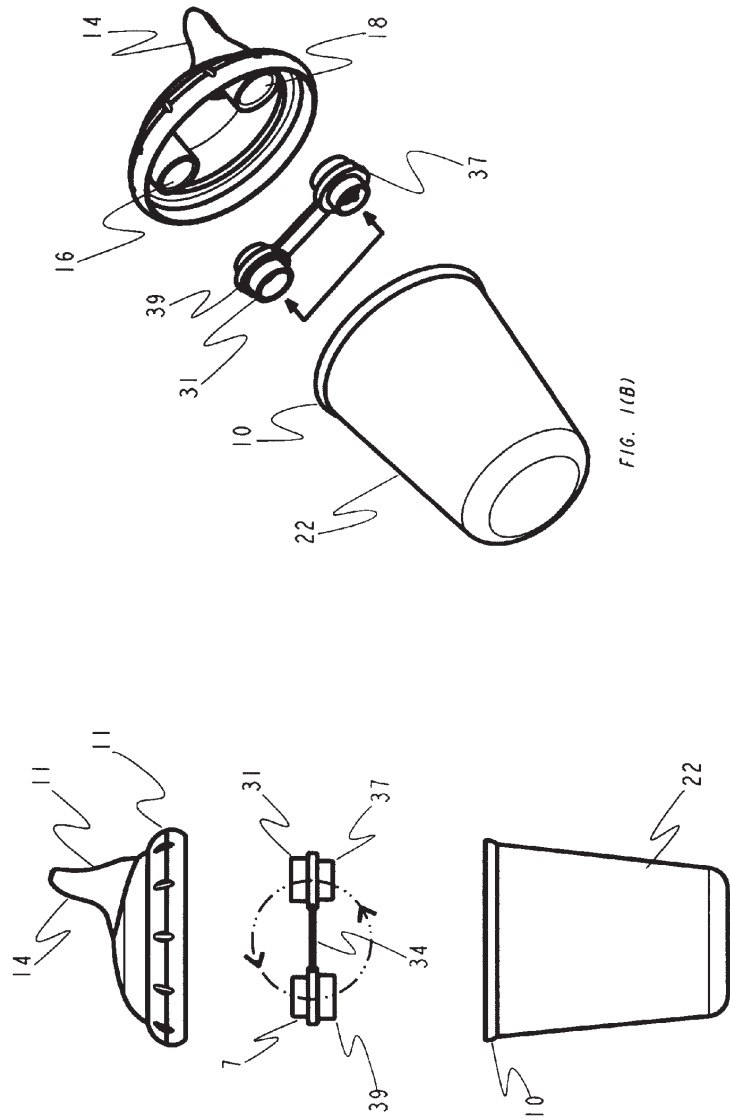
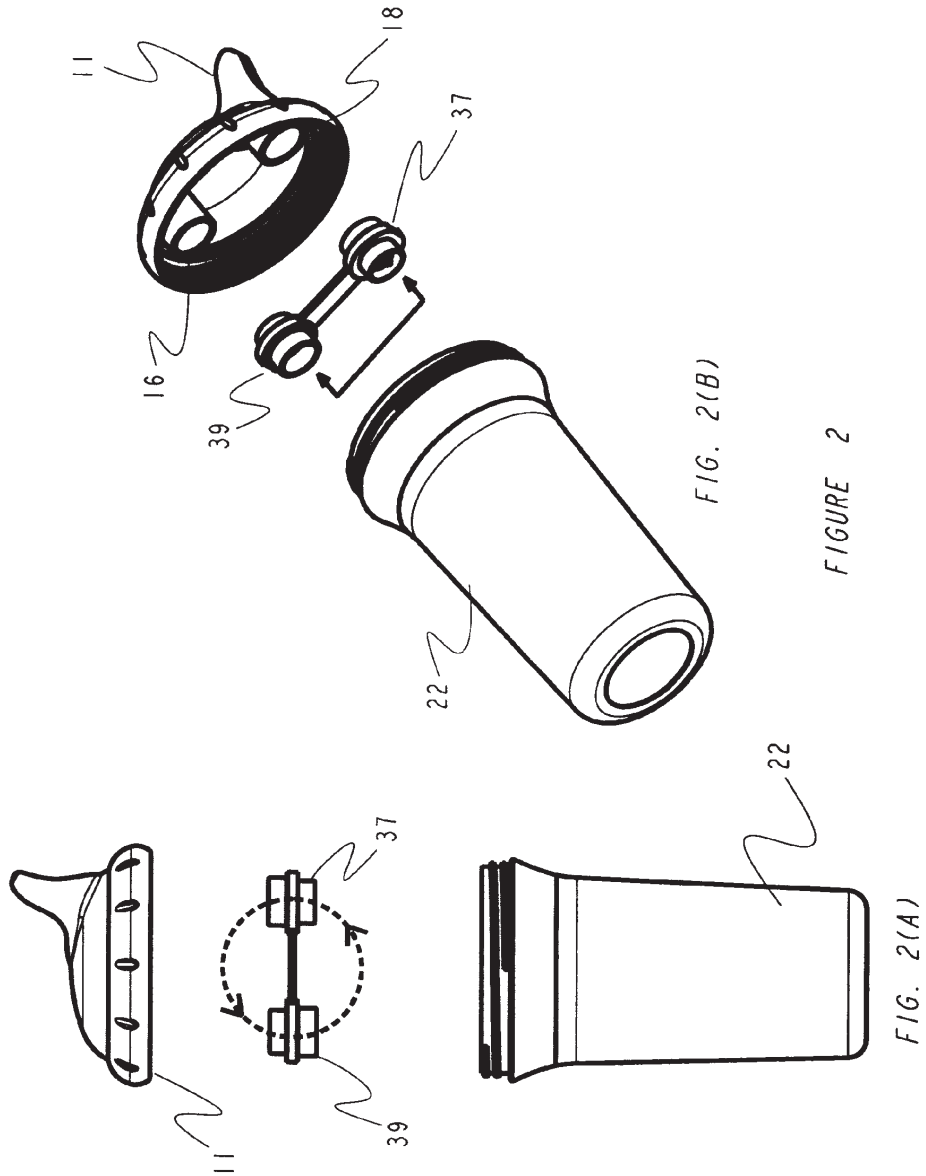


FIGURE 1



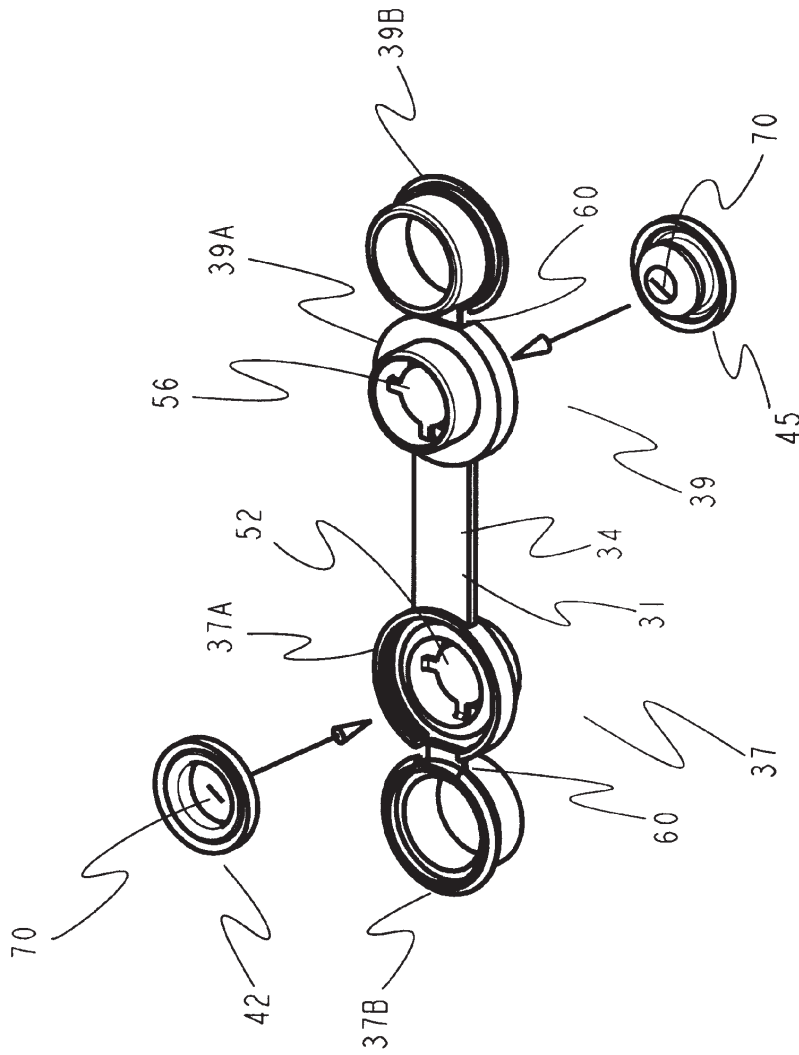


FIGURE 3

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