



[54] **INTERACTIVE TOY**

[75] Inventors: **Oz Gabai; Jacob Gabai**, both of Tel Aviv; **Nimrod Sandlerman**, Ramat Gan, all of Israel

[73] Assignee: **Creator LTD**, Givat Shmuel, Israel

[21] Appl. No.: **09/081,255**

[22] Filed: **May 19, 1998**

[30] **Foreign Application Priority Data**

Apr. 16, 1998 [IL] Israel ..... 124122

[51] **Int. Cl.<sup>7</sup>** ..... **G09B 5/00**

[52] **U.S. Cl.** ..... **434/308; 434/307 R; 434/323; 446/298; 463/35; 463/39**

[58] **Field of Search** ..... 446/175, 280, 446/297, 298, 301, 302, 340, 341, 354, 397; 434/169, 185, 307 R, 308, 322, 362, 365, 323, 353; 463/1, 35, 39; 273/460; 340/825.44, 825.46, 825.47, 825.69; 704/235, 246, 253, 260, 272, 275, 276; 345/50, 473, 474; 360/79; 386/97, 104; 381/110; 367/198; 74/353, 665 GA

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

4,642,710	2/1987	Murtha et al.	360/79
4,712,184	12/1987	Haugerud .	
4,717,364	1/1988	Furukawa	446/175
4,802,879	2/1989	Rissman et al.	446/175
4,840,602	6/1989	Rose .	
4,846,693	7/1989	Baer	434/308
4,923,428	5/1990	Curran	446/175
5,021,878	6/1991	Lang .	
5,032,099	7/1991	Chan	446/175
5,142,803	9/1992	Lang .	
5,191,615	3/1993	Aldava et al. .	
5,195,920	3/1993	Collier .	
5,209,695	5/1993	Rothschild	446/175
5,241,142	8/1993	Thangavelu .	

(List continued on next page.)

**FOREIGN PATENT DOCUMENTS**

3009-040 5/1982 Germany .

**OTHER PUBLICATIONS**

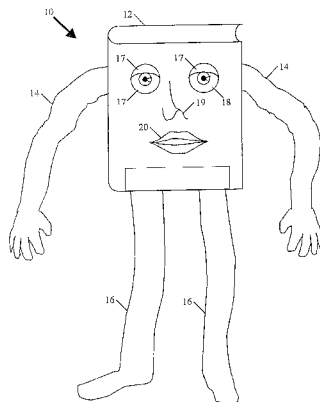
D.A. Norman, "How Might People Interact with Agents", Communications of the ACM, 37(7):68-71, Jul. 94.  
 J. Bates, Communications of the ACM, 37(7):122-125, Jul. 94, "The Role of Emotion in Believable Agents".  
 Microsoft Corp., Using the Microsoft Agent Character Editor, Aug. 1997.  
 Microsoft Corp., Designing Characters for Microsoft Agent, Aug. 1997.  
 D. Barker, "Secret Agent Man: Microsoft's New Animated Agent Technology," Jan./Feb. 1998, pp. 49-51.  
 Brochure: The Industry Standard for Creating and Distributing Interactive Applications, Macromedia Director, Version 5, 1996.  
 Brochure: Authoring Tool for Interactive Learning, Macromedia, 1993.

*Primary Examiner*—Joe H. Cheng  
*Attorney, Agent, or Firm*—Darby & Darby

[57] **ABSTRACT**

Interactive toy apparatus including:  
 a toy having a fanciful physical appearance and including:  
 at least one audio transducer; and  
 a toy transceiver communicating with the audio transducer; and  
 a computer including:  
 a user input receiver;  
 a user information storage unit storing information relating to a user's preferences received from a user via the user input receiver and relating to a user;  
 a computer transceiver;  
 a speech recognition unit receiving speech inputs from the user; and  
 an interactive content controller employing the information relating to the user's preferences received via the user input receiver and stored in the user information storage unit and also employing the speech recognition output for providing interactive audio content to the user at the toy.

**8 Claims, 188 Drawing Sheets**



## U.S. PATENT DOCUMENTS

5,270,480	12/1993	Hikawa .	5,673,369	9/1997	Kim .	
5,289,273	2/1994	Lang .	5,700,178	12/1997	Cimerman et al. ....	446/301
5,324,225	6/1994	Satoh et al. ....	5,701,400	12/1997	Amado .	
5,388,493	2/1995	Curletto .	5,727,951	3/1998	Ho et al. ....	434/362
5,407,376	4/1995	Avital et al. ....	5,733,131	3/1998	Park .....	434/307 R
5,441,414	8/1995	Chretien .....	5,734,794	3/1998	White .....	704/275
5,613,909	3/1997	Stelovsky .	5,741,136	4/1998	Kirksey et al. ....	434/169
5,636,994	6/1997	Tong .....	5,746,602	5/1998	Kikinis .....	434/322 X
5,647,787	7/1997	Raviv et al. ....	5,752,880	5/1998	Gabai et al. ....	434/308 X
5,666,469	9/1997	Lee .	5,779,486	7/1998	Ho et al. ....	434/353
			5,855,483	1/1999	Collins et al. ....	434/307 R X-

FIGURE 1A

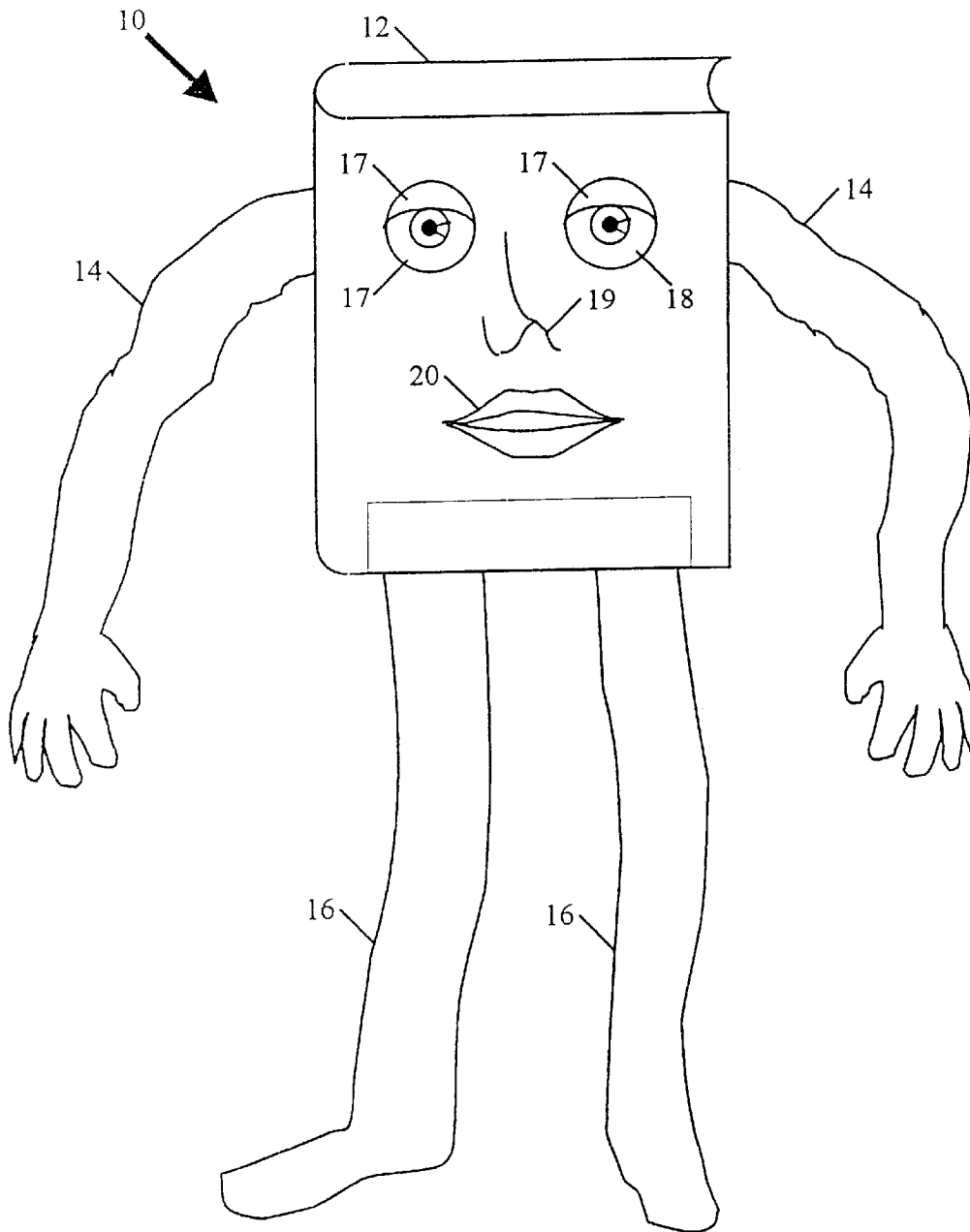


FIGURE 1B

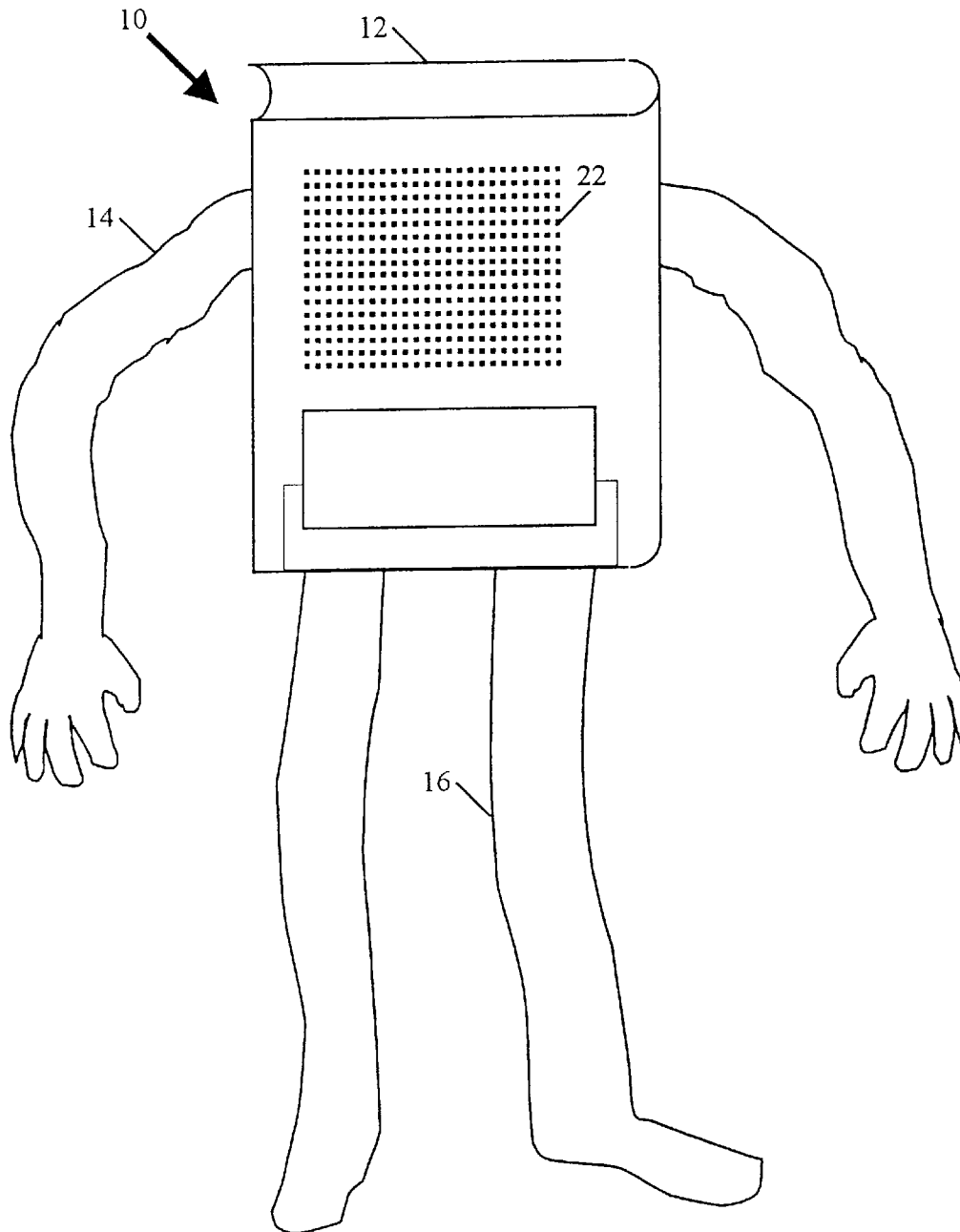
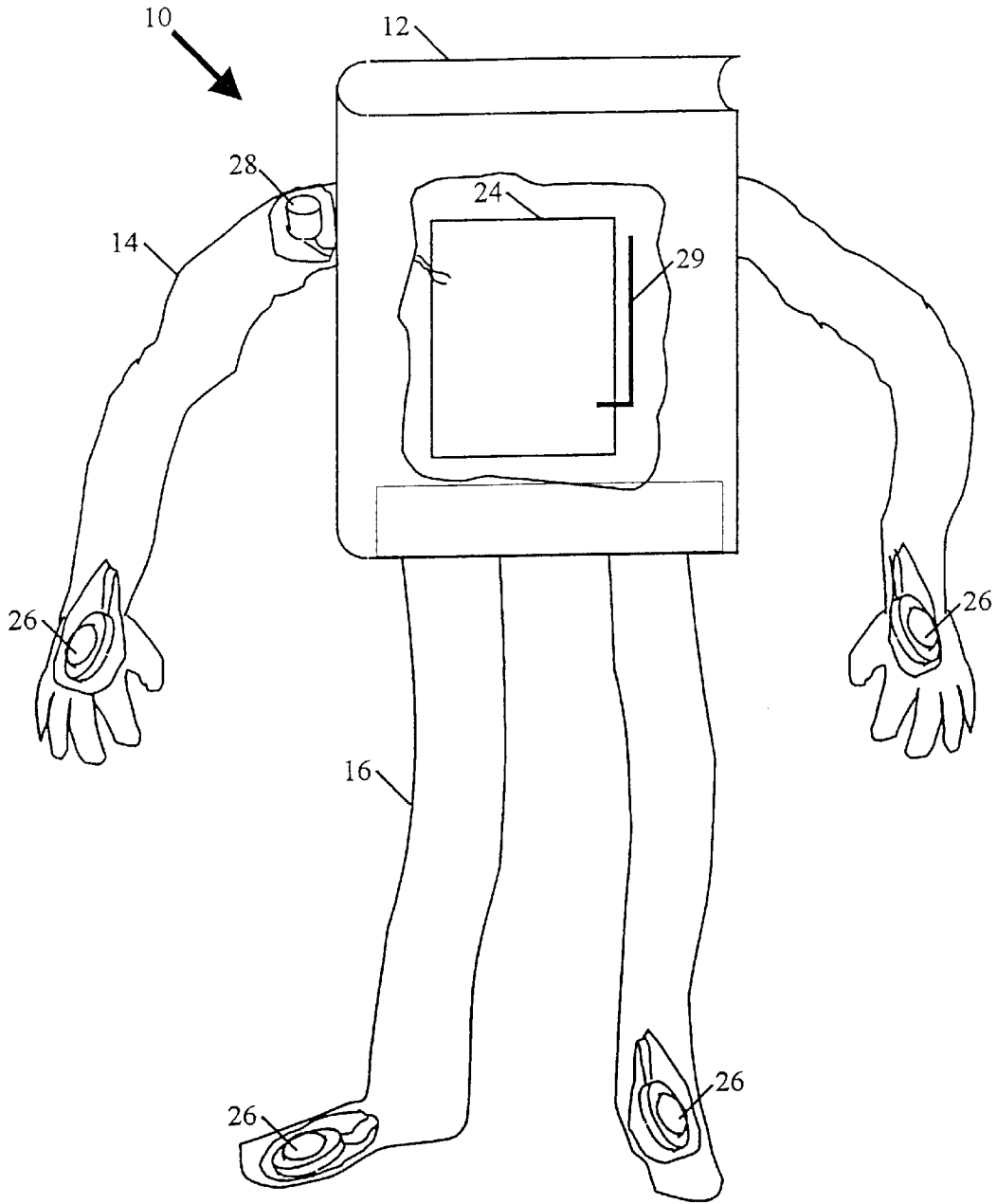


FIGURE 2



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.