

### US006002395A

## United States Patent [19]

### Wagner et al.

6,002,395 [11] **Patent Number:** 

**Date of Patent:** \*Dec. 14, 1999 [45]

[54]	SYSTEM AND METHOD FOR BUILDING,
	TESTING AND INTEGRATING A
	GRAPHICAL TOUCH USER INTERFACE

[75] Inventors: Samuel J. Wagner, Lilburn; Garv R. Young, Dunwoody, both of Ga.

[73] Assignee: NCR Corporation, Dayton, Ohio

[\*] 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).

[21] Appl. No.: **08/742,004** 

[22] Filed: Oct. 31, 1996

[52] **U.S. Cl.** ...... **345/333**; 345/335; 345/173

345/335, 348, 339, 967

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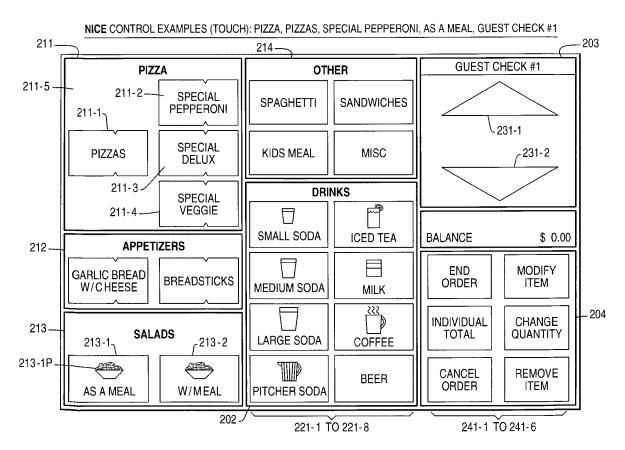
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Primary Examiner—Raymond J. Bayerl Assistant Examiner—Chadwick A. Jackson Attorney, Agent, or Firm-Needle & Rosenberg

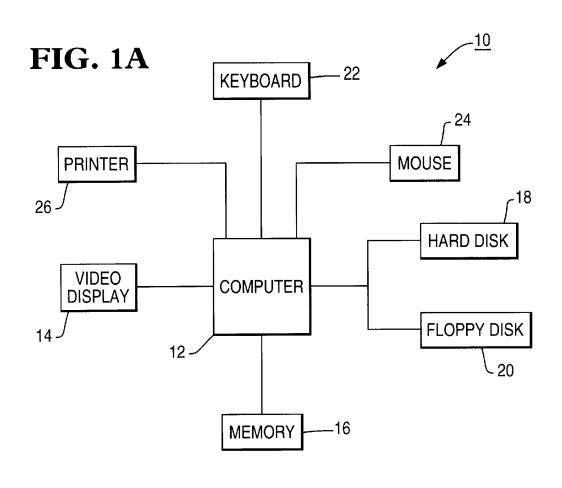
#### [57] **ABSTRACT**

Abuilder, tester, and runtime integration system and method for a graphical touch user interface, such as a point-of-sale (POS) touch screen interface system, is provided. The system and method may include a builder tool to create and modify the graphical interface, a tester tool for testing the interface, and a run-time system for actually executing the interface logic. Because the interface may be designed, modified and tested external to the run-time system, the design and maintenance may be performed by a nonprogrammer without ever changing run-time code. Additionally, the builder and tester may be designed to be general-purpose, and the run-time code may be reusable.

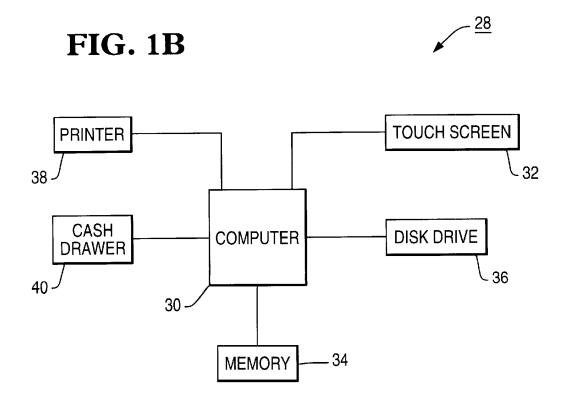
### 21 Claims, 30 Drawing Sheets



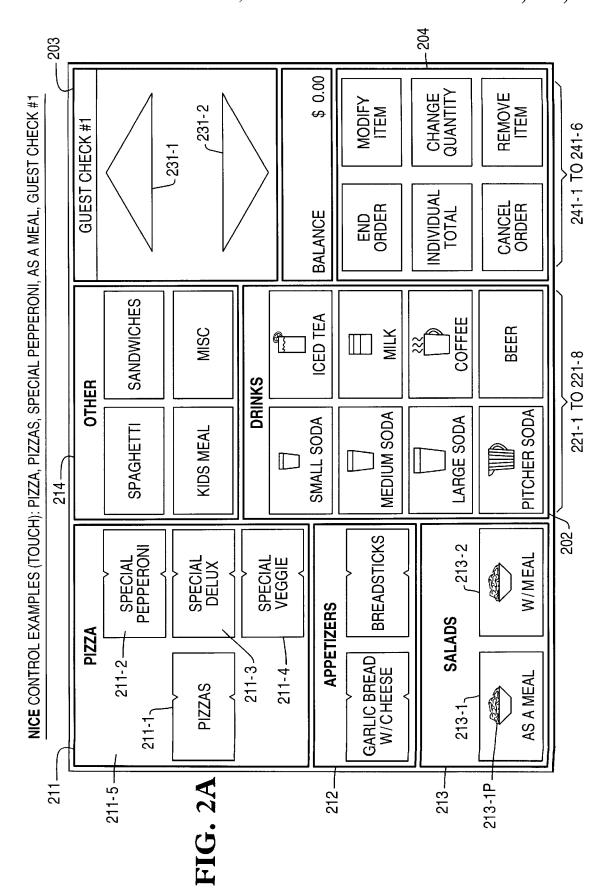




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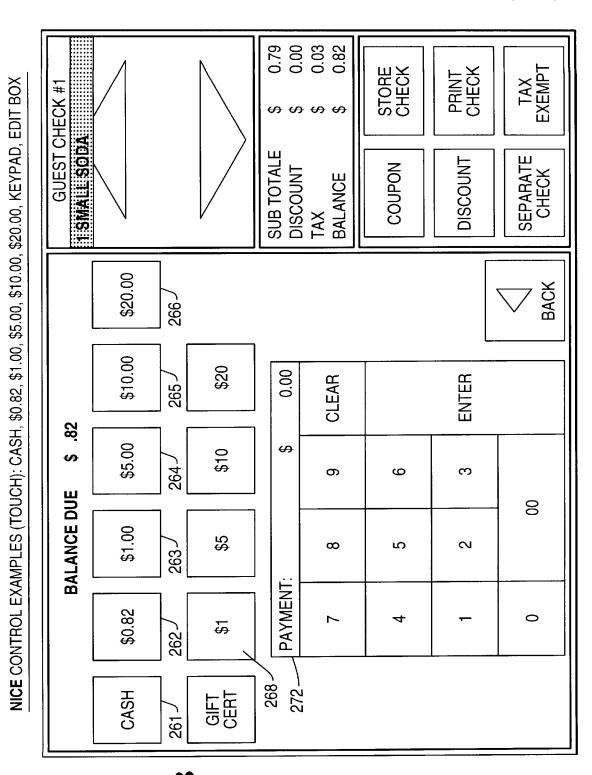


FIG. 2B



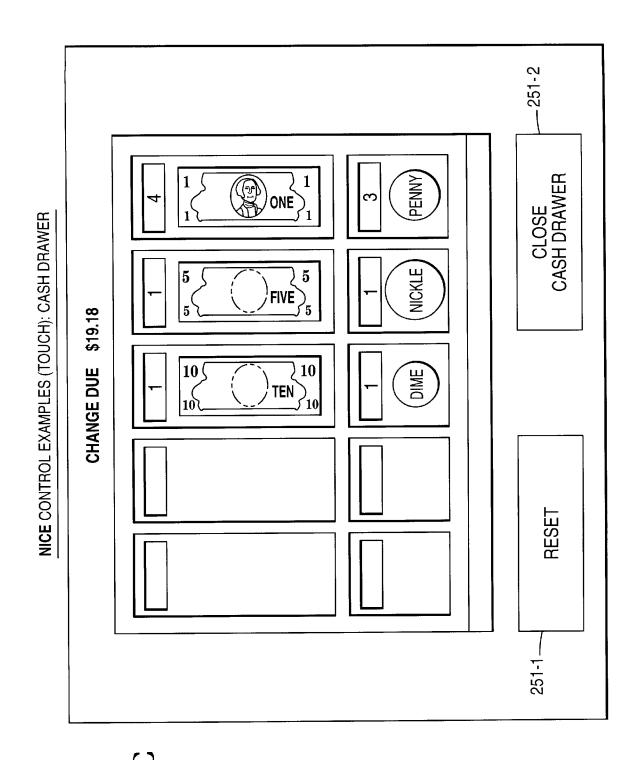


FIG. 2C

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