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United States Patent [19]

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Mori et al.

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[54] **ELECTRONIC COMMERCE SYSTEM AND METHOD FOR PROVIDING COMMERCIAL INFORMATION IN ELECTRONIC COMMERCE SYSTEM**

5,753,899	5/1998	Gomm et al.	235/381
5,878,138	3/1999	Yacobi	705/41
5,910,987	6/1999	Ginter et al.	380/24

OTHER PUBLICATIONS

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"Insurance : Life Insurance Version", No. 3686, published by Insurance Research Institute Co., Ltd., Jan. 11, 1996, pp. 15-16.

[73] Assignee: **Hitachi, Ltd.**

"Nikkei Money" published by Nikkei Home Publishing Inc. Nov. 1, 1996, p. 59.

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[30] Foreign Application Priority Data

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[57] ABSTRACT

[51] Int. Cl.⁷ **G06F 17/60**

Log information concerning an electronic transaction performed between a transaction device and a business connection server through a network is compared with information concerning a predetermined business connection down-loaded from the server, and the log information is recorded in an IC card accepted by the transaction device when the log information is related to the information concerning a predetermined business connection. Predetermined commodity information is provided to a user in accordance with a request by the user of the IC card when the log information stored in the IC card satisfies a predetermined condition.

[52] U.S. Cl. **705/26; 705/26**

[58] Field of Search **705/14, 10, 26, 705/41; 235/380**

[56] References Cited

U.S. PATENT DOCUMENTS

5,530,232	6/1996	Taylor	235/380
5,677,955	10/1997	Doggett et al.	380/24
5,682,027	10/1997	Bertina et al.	235/380
5,705,798	1/1998	Tarbox	235/379
5,739,512	4/1998	Tognazzini	235/380
5,742,845	4/1998	Wagner	710/11

27 Claims, 13 Drawing Sheets

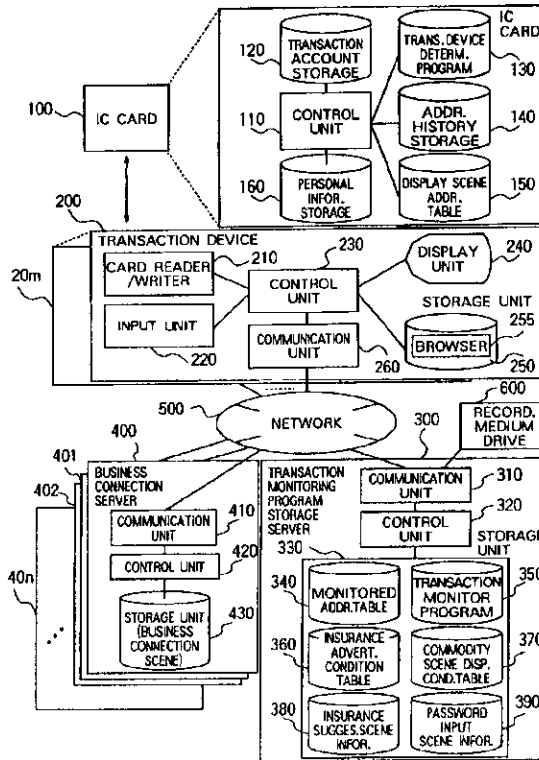


FIG. 1

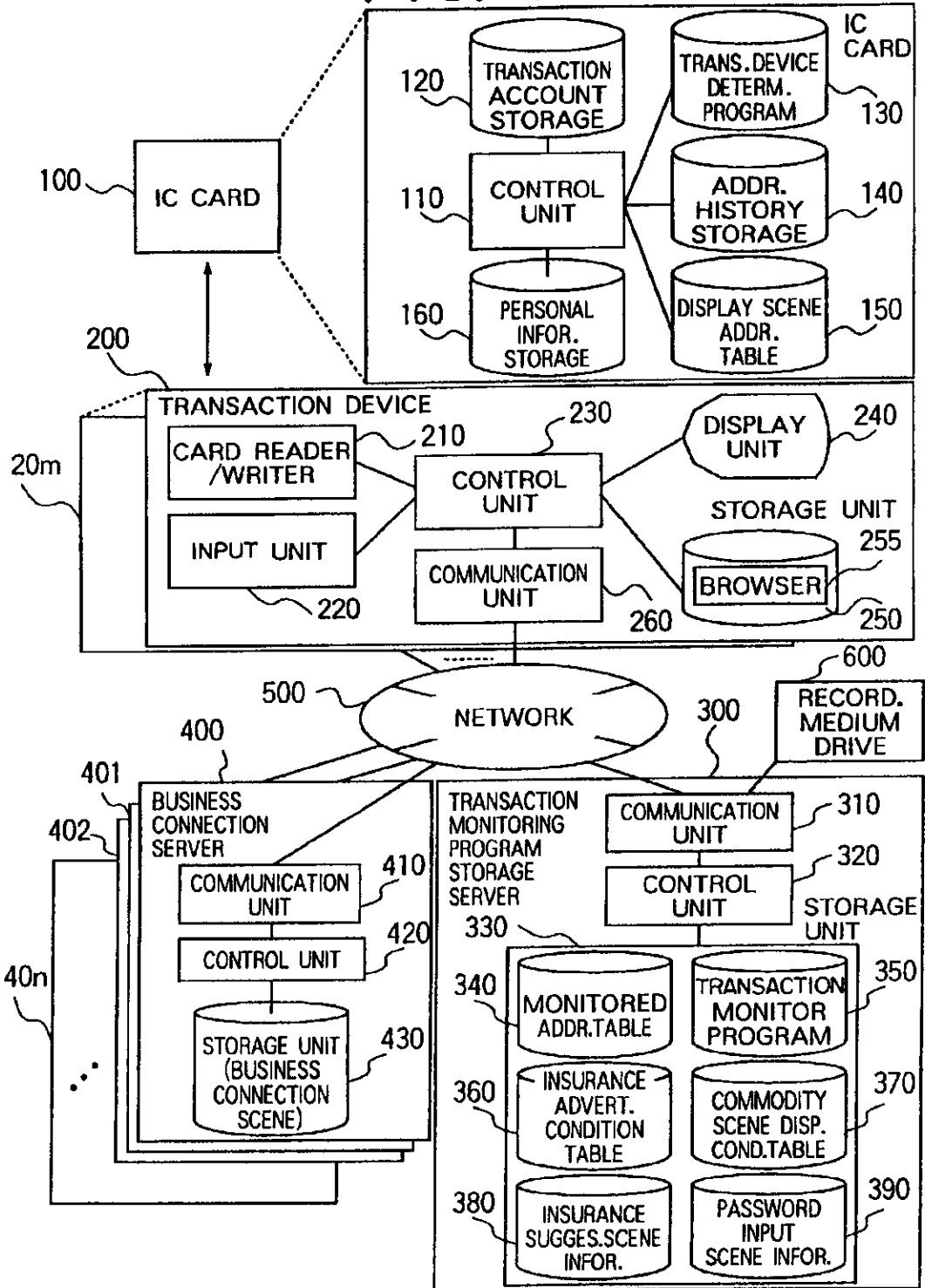


FIG. 2

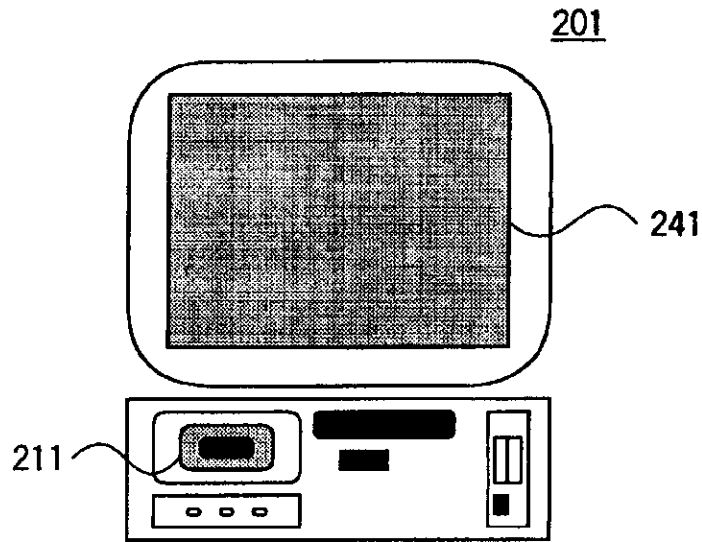


FIG. 3

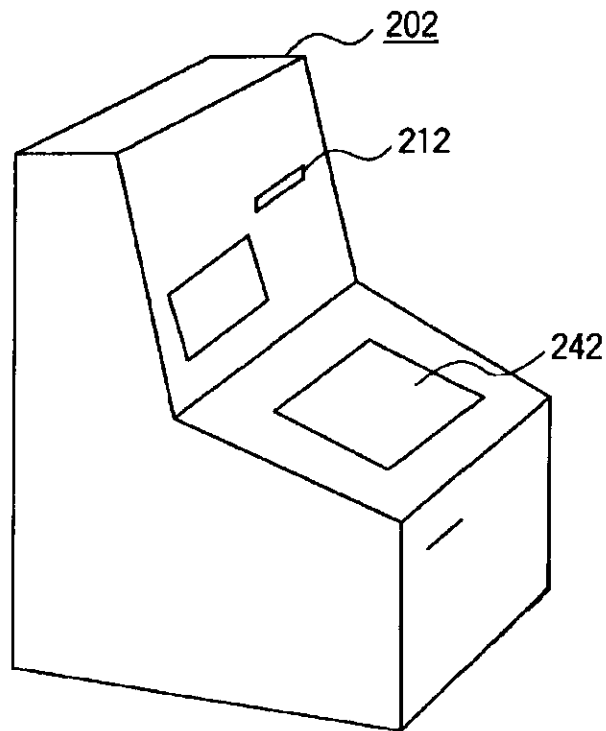


FIG. 4

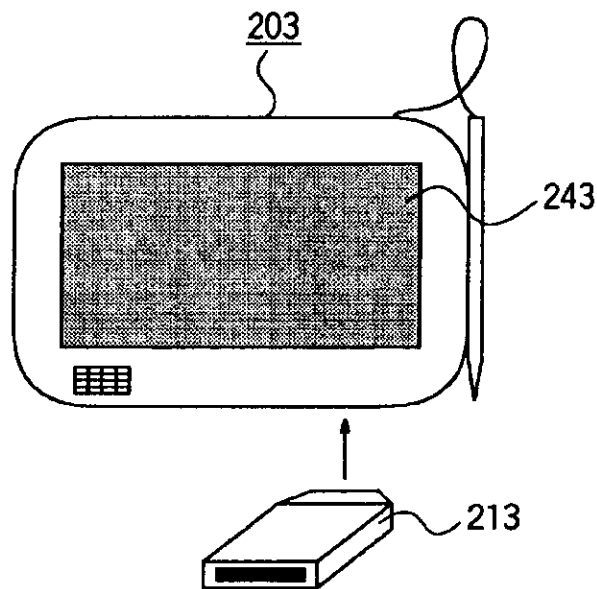


FIG. 5

