



[54] **SECURE WORLD WIDE ELECTRONIC COMMERCE OVER AN OPEN NETWORK** 5,371,794 12/1994 Diffie et al. 380/30
5,475,758 12/1995 Kikuchi 380/25

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[21] Appl. No.: **622,015**

[57] **ABSTRACT**

[22] Filed: **Mar. 26, 1996**

A network of users and servers of a type found in the Internet system is extended to permit secure electronic commercial transactions to be accomplished. The network is extended to include a public key infrastructure and electronic transactions can be securely performed utilizing smart token technology. Conduct of a variety of common electronic business transactions over such an extended network is provided.

[51] **Int. Cl.⁶** **H04L 9/00**

[52] **U.S. Cl.** **380/21; 380/30; 380/49; 380/25**

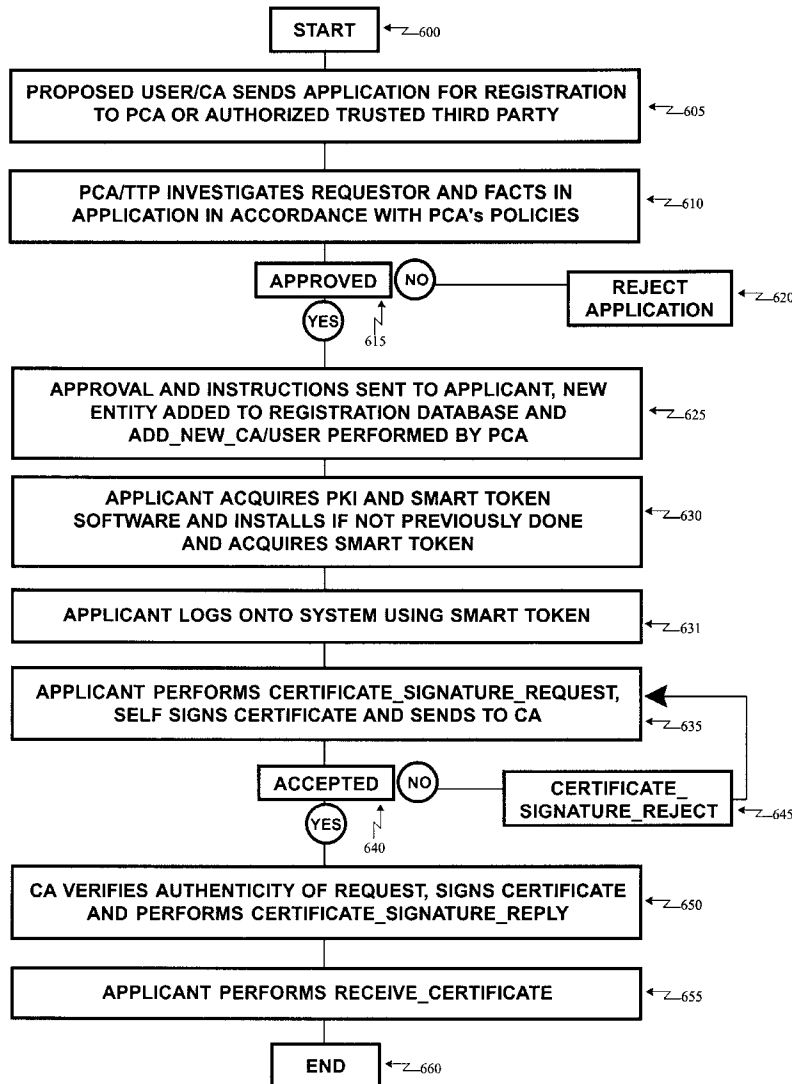
[58] **Field of Search** 380/21, 23, 25, 380/30, 49

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,005,200 4/1991 Fischer 380/30

38 Claims, 32 Drawing Sheets



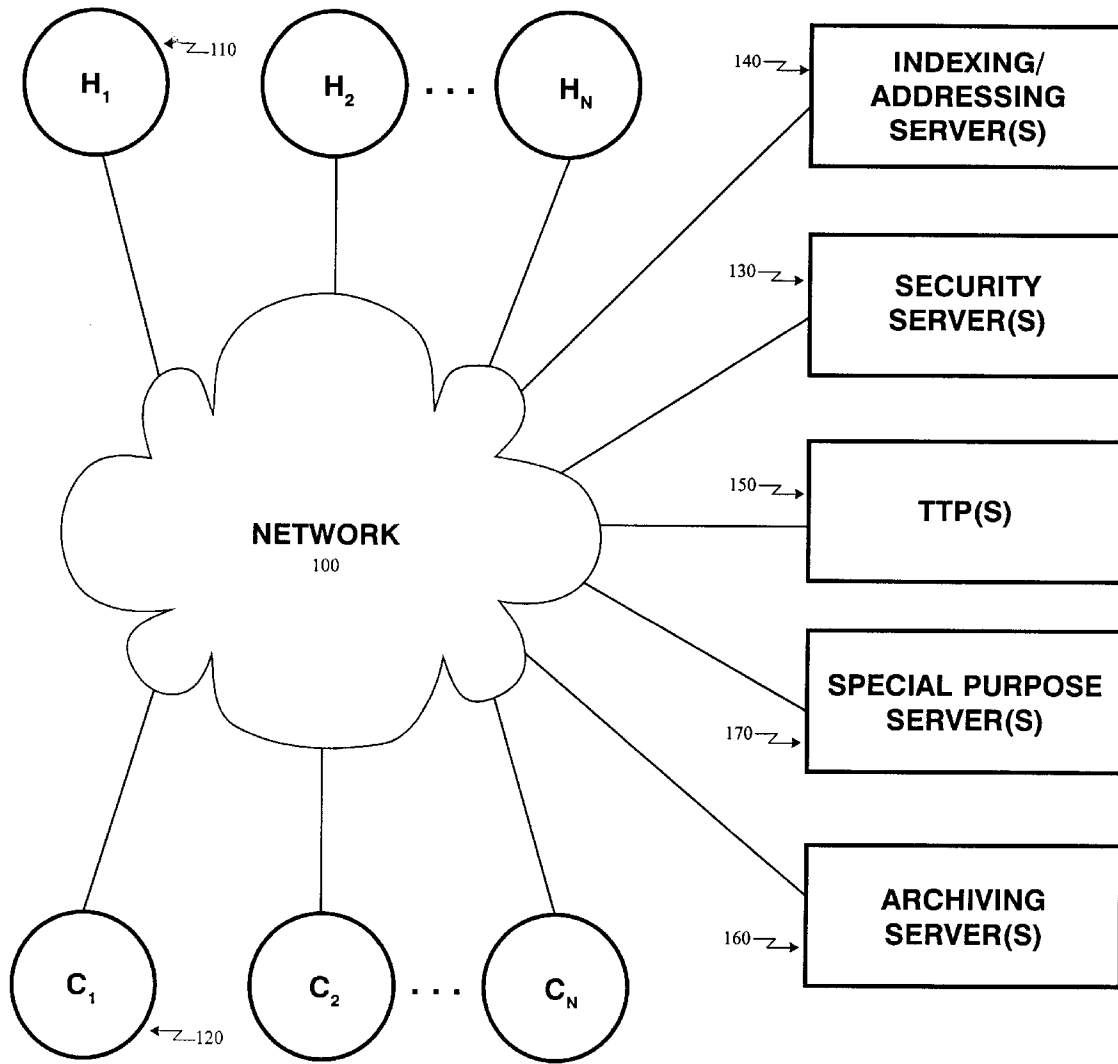


Figure 1

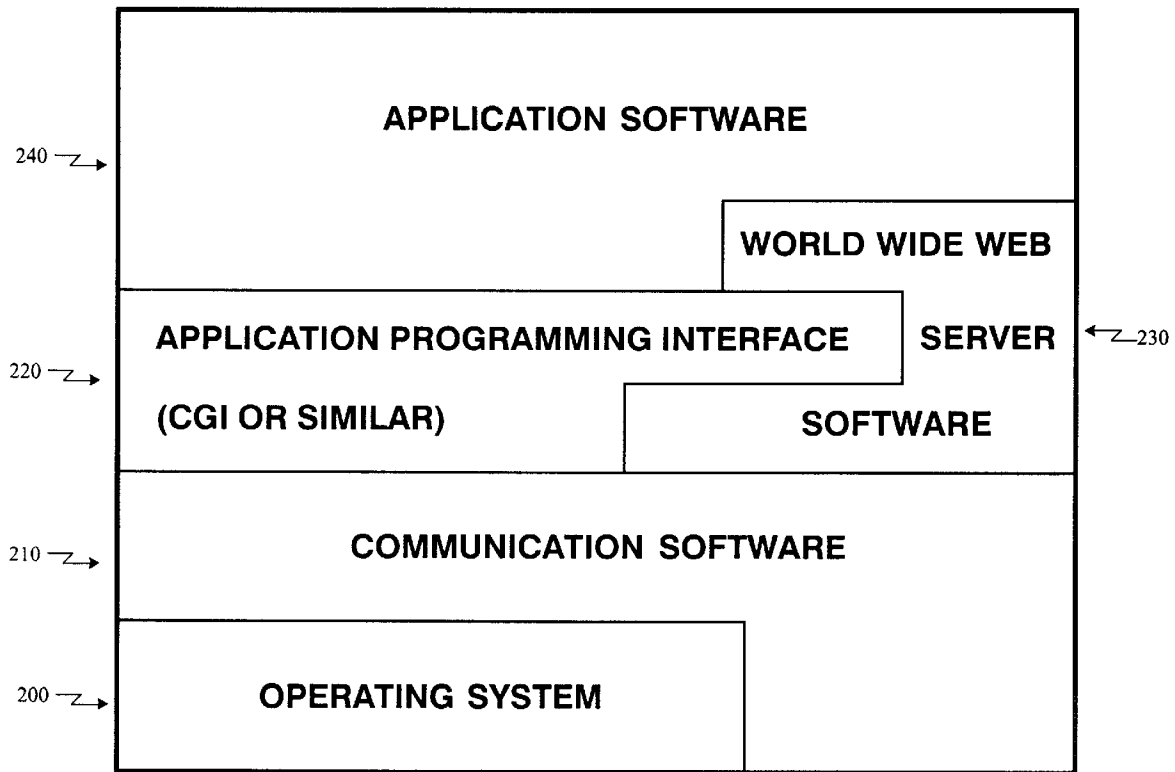


Figure 2

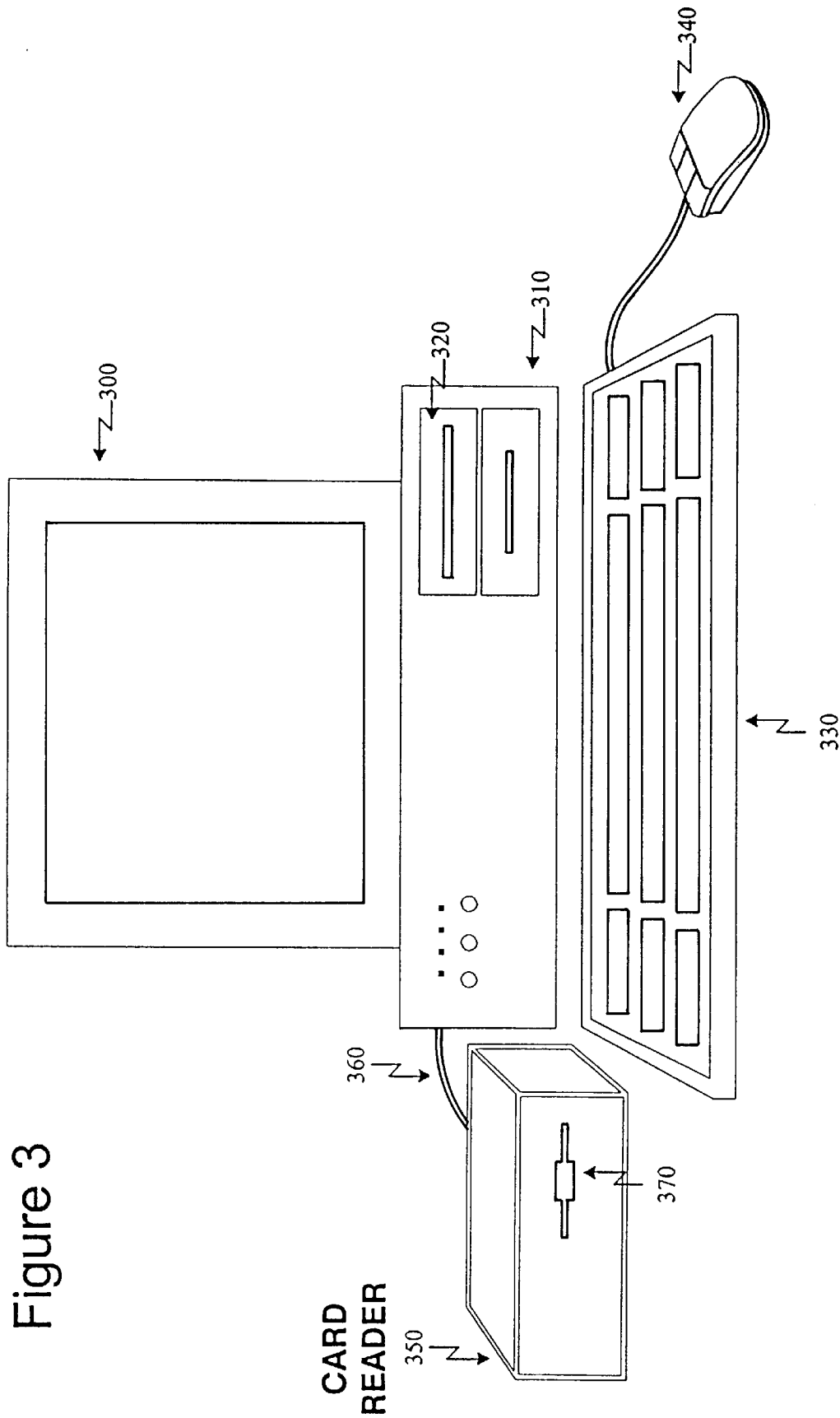


Figure 3

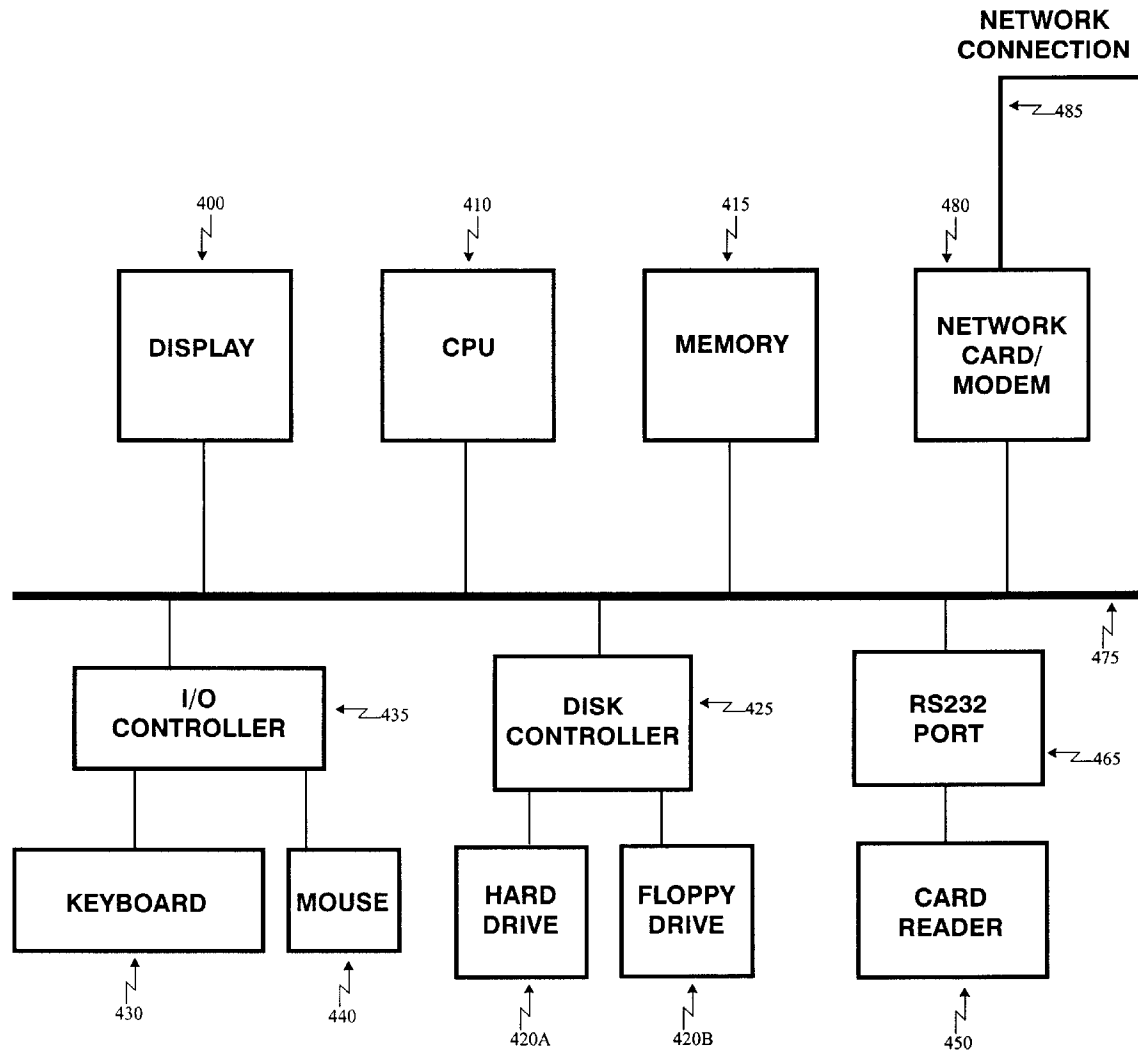


Figure 4

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