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Lemiläinen et al.

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- (54) **METHOD FOR COUPLING A WIRELESS TERMINAL TO A DATA TRANSMISSION NETWORK AND A WIRELESS TERMINAL**
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- (73) Assignee: **Nokia Mobile Phones Ltd**, Espoo (FI)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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- (21) Appl. No.: **09/307,894**
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- (30) **Foreign Application Priority Data**
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- (51) **Int. Cl.**⁷ **G06F 15/16**
- (52) **U.S. Cl.** **709/250; 709/227**
- (58) **Field of Search** 709/250, 225, 709/227, 220, 238, 222, 239, 317; 710/8; 370/216; 340/7.1; 455/403; 713/201

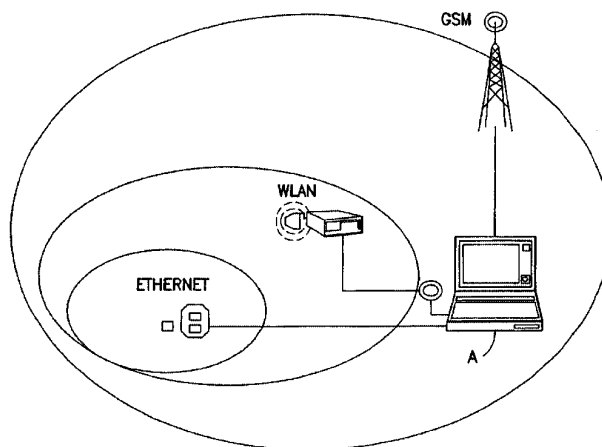
(57) **ABSTRACT**

The invention relates to a terminal (A), which comprises at least one network interface card (NIC1, NIC2, NIC3) for setting up a data transmission connection to a communication network (NW1, NW2, NW3, MNW) for packet switched data transmission, and means (PD) for forming packets of the information to be transmitted and for unpacking information from the received packets. The terminal (A) is allocated at least one first address identifying the terminal (A), and at least one data network-specific second address. The means (PD) for forming packets comprise means for connecting the first address to the packets, and the terminal (A) also comprises a network interface selection driver (NISD), which contains means for selecting the communication network (NW1, NW2, NW3, MNW) used in data transmission at a given time, means for transmitting packets between the means (PD) for forming packets and the network interface card (NIC1, NIC2, NIC3) corresponding to the data transmission network (NW1, NW2, NW3, MNW) used at a given time, and means for modifying the first address to the second address according to the data transmission network used in the packets at a given time.

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12 Claims, 10 Drawing Sheets



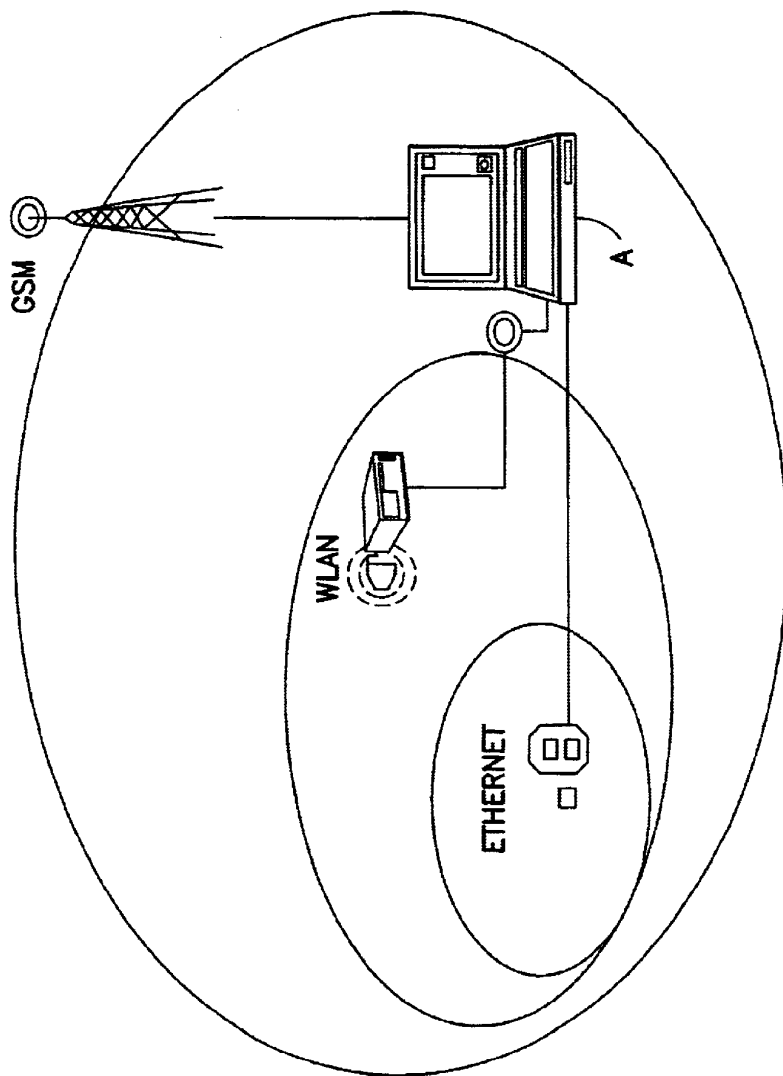


FIG.1

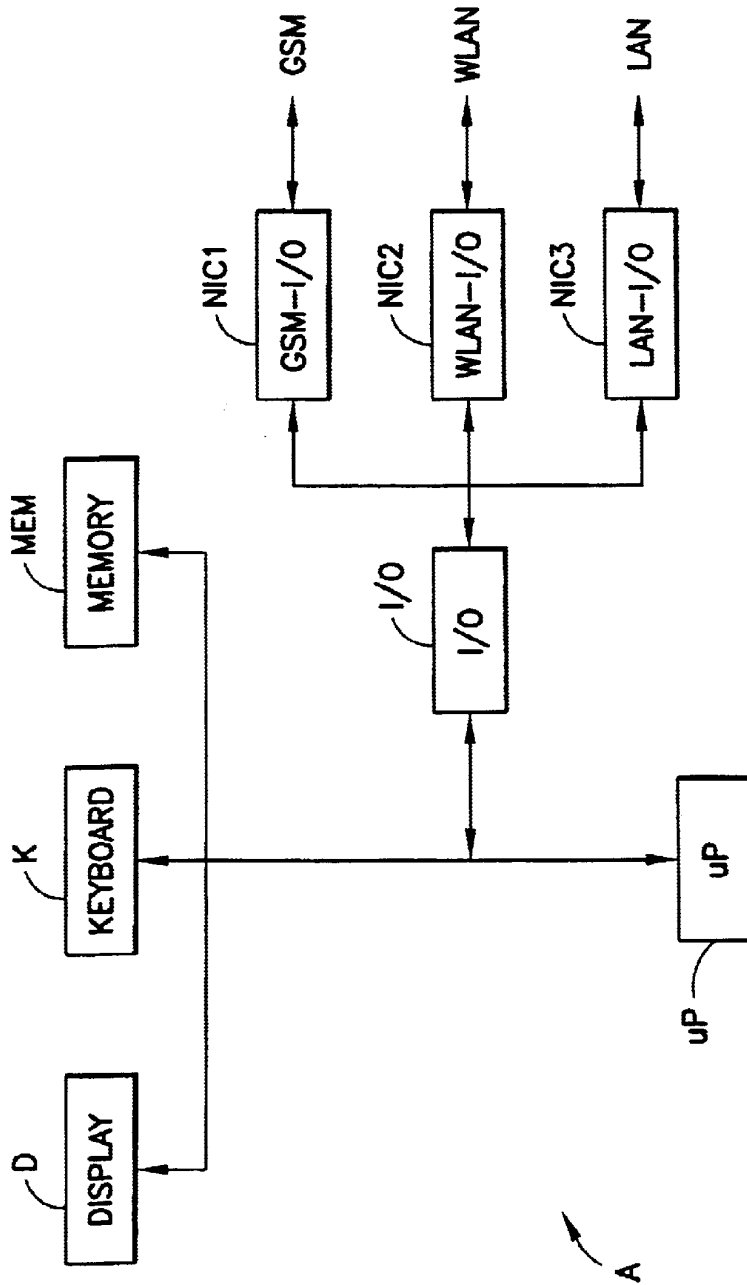
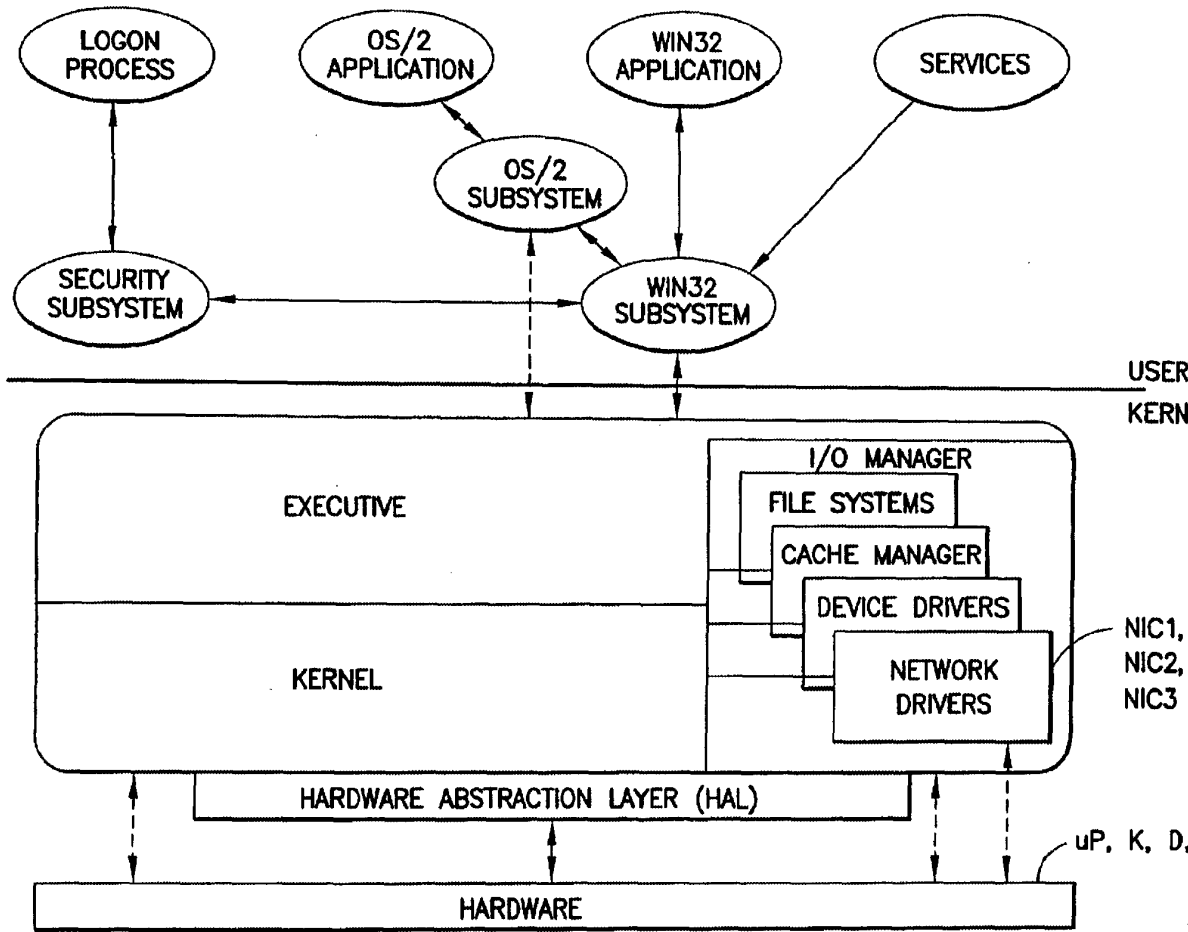


FIG.2



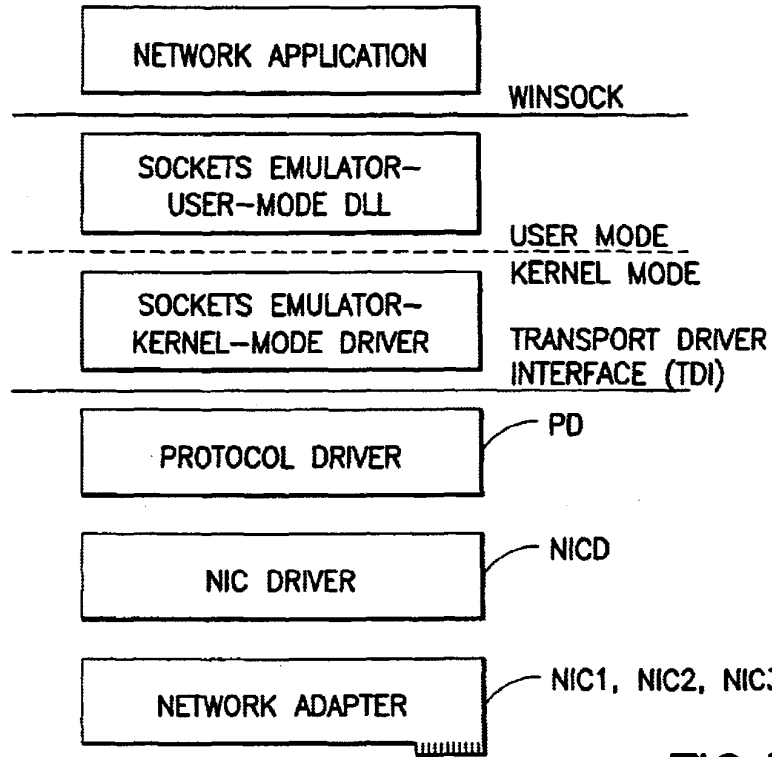


FIG.3b

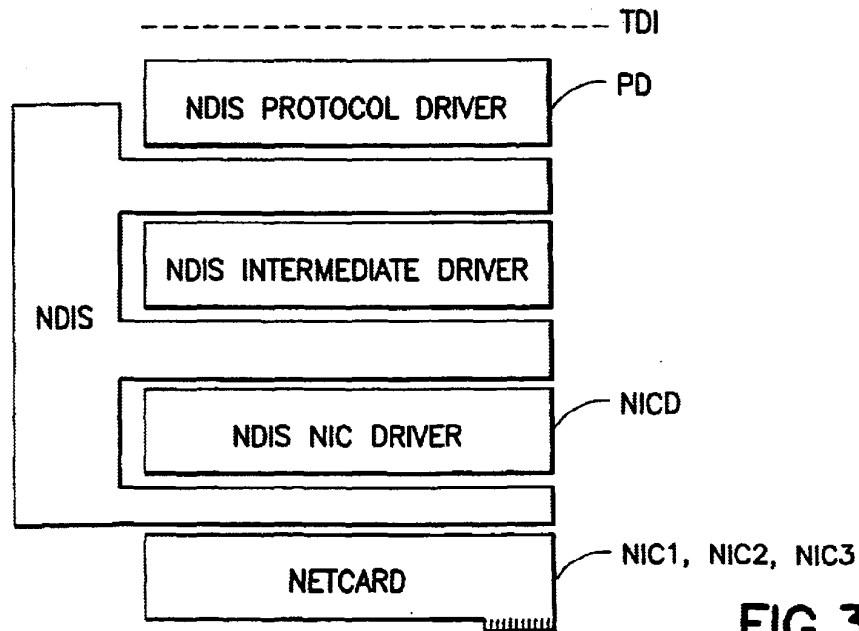


FIG.3c

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