Exhibit 1019

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US007047313B1

(12) United States Patent

Broerman

(54) METHOD FOR REDIRECTING PACKETIZED DATA ASSOCIATED WITH A DESTINATION ADDRESS IN A COMMUNICATION PROTOCOL LAYER TO A DIFFERENT DESTINATION ADDRESS IN A DIFFERENT PROTOCOL LAYER

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 529 days.
- (21) Appl. No.: 09/644,337
- (22) Filed: Aug. 23, 2000

Related U.S. Application Data

- (60) Provisional application No. 60/174,565, filed on Jan.5, 2000.
- (51) Int. Cl. *G06F 15/16* (2006.01)
- (52) U.S. Cl. 709/238
- (58) Field of Classification Search 709/238, 709/218, 230, 245

See application file for complete search history.

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May 16, 2006

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(10) Patent No.:

(45) Date of Patent:

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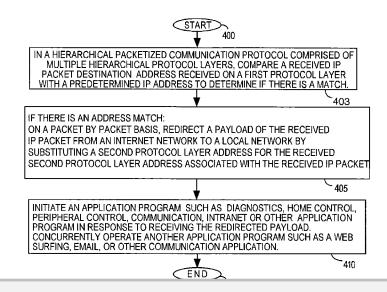
(Continued)

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(57) ABSTRACT

A system enables a bi-directional communication device such as a modem to facilitate local communication between the modem and an attached PC as well as to enable the PC to conduct concurrent Internet and local communication. A bi-directional communication system employs a method for seamlessly communicating packetized data between different networks using hierarchical layers of communication protocols (e.g. including Internet Protocol (IP) and Media Access Control (MAC) layers). The method involves comparing a received IP packet destination address in a first protocol layer with a predetermined IP address to determine if there is an address match. Upon such an address match, a payload of the received IP packet is redirected from an Internet network to a local network (e.g. an Ethernet, HPNA or USB network) by substituting a second protocol layer address for a received second protocol layer address (e.g. a MAC address). In another feature, a second Application (e.g. peripheral control) is initiated to operate concurrently with a first Application (e.g. web surfing) in response to receiving the redirected payload data.

19 Claims, 7 Drawing Sheets



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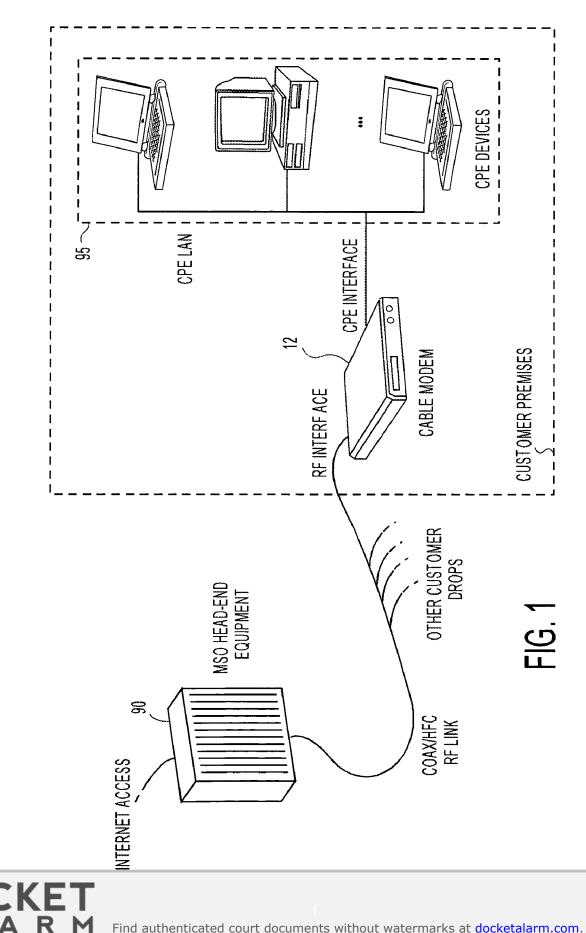
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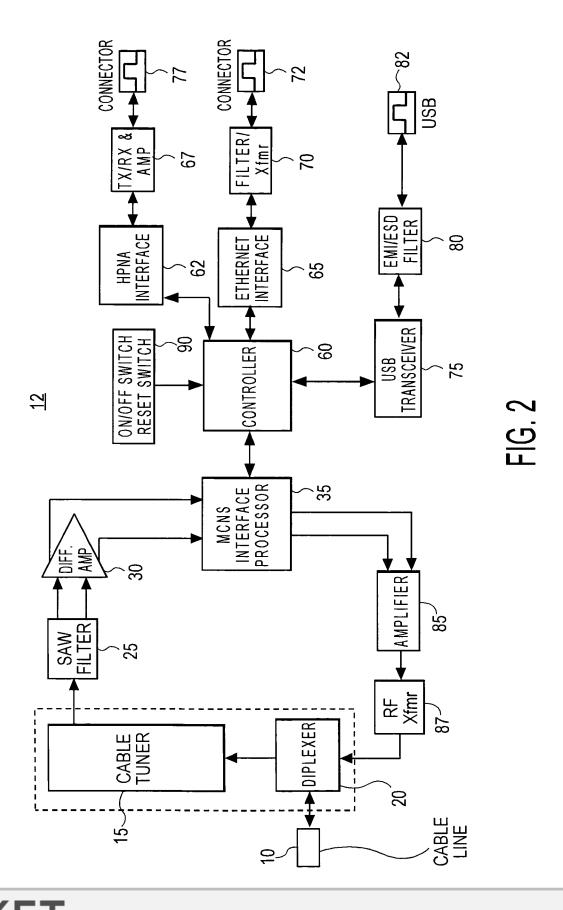
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