

TRANSMISSION LINE DETECTION

Xerox Corporation

Initial Bidding Guidance: Low 6 Figures

The portfolio is directed to improved apparatus and methods that enable operators to determine whether a connector for a transmission line is present within a receptacle when a fault message is received. The apparatus comprises a receptacle for receiving the connector and a sensor associated with the receptacle for detecting the presence of the connector within the receptacle. The sensor sends a signal indicating whether the detecting sensor detects the presence of the connector. The apparatus includes a signal detector to detect if a signal is being communicated through the transmission line. The information provided by the sensor and the signal detector can be shared with the operator when a fault message is sent. With such increased information, an operator can more efficiently focus attention on other possible causes of the fault message or may conclude that the fault message is most likely the result of a line being in use.

Forward Citing Companies: Blackberry, Cisco, Ever Win International, Koch Industries, Microsoft, Mitel Networks, Neurometrix, TE Connectivity

Priority Date: 12-22-1999

Representative Claim: US 7,814,240 – Claim #21

A method of operating a device provided with a communications transmission line, where that communications transmission line terminates with a connector adapted to be received in a receptacle, the receptacle provided by the device comprising: providing an inner surface of the receptacle with a moveable sensor switch for detecting a presence of the connector; moving the connector into the receptacle; moving the sensor switch from a first position to a second position, the second position in contact with a sensor circuit connected through the sensor, the movement of the sensor completing to complete the circuit; moving the connector into contact with the transmission line situated in the receptacle; activating the device; determining via the connector's physical contact with the sensor whether the connector is present within the receptacle; and after determining the connector is in positive contact with the sensor, determining whether a signal is being communicated through the transmission line, wherein no signal being communicated indicates that a failure of transmission is caused by simultaneous use of other associated devices and not by failure of the connector to contact the transmission line.

Contact:

For more information on the assets available for sale in this portfolio, contact Paul Greco.

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TECHNOLOGY

TRANSMISSION LINE
DETECTION

NOVELTY

PLUG CONNECTOR
SENSING APPARATUS FOR
DETERMINING WHETHER
A CONNECTOR FOR A
TRANSMISSION LINE
IS PRESENT WITHIN A
RECEPTACLE

IMPORTANCE

A VALUABLE PORTFOLIO
FOR SUPPLIERS OF
ELECTRONIC SIGNAL
COMMUNICATIONS
DEVICES, TRANSMISSION
LINES, AND CONNECTORS

NUMBER OF ASSETS

2

US PATENTS (2)

7,384,300
7,814,240