

ABSTRACT OF THE DISCLOSURE

A duplex communication control device for a communication system comprising a plurality of communication stations which communicate data between them. These stations are connected via a duplexed communication network. That of the stations which holds a token communicate over the duplexed communication network. Each station comprises: a bus status list storing information indicating whether the station can communicate over the first and second communication lines of the duplexed network; a token-generating means which carries the newest bus status information possessed by the token-generating means itself on a token frame and transmits the token frame; a list-updating means which receives the token frame transmitted over the first and second communication lines and updates the contents of its own bus status list according to the bus status information carried on the token frame; and a transmission-reception means which selects one or both of the two communication lines according to the bus status list and communicates.

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