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(54) **ONE-WAY DATA TRANSFER SYSTEM WITH BUILT-IN DATA VERIFICATION MECHANISM**

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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 348 days.

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H04L 12/28 (2006.01)

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(58) **Field of Classification Search** None
See application file for complete search history.

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(57) **ABSTRACT**

Embodiments of the present invention are directed to a one-way data transfer system with built-in data verification mechanism, comprising three nodes (Send Node, Receive Node, and Feedback Node) wherein (1) the three nodes are interconnected with each other by a one-way data link, and (2) the Feedback Node is designed solely for processing and relaying data verification information from the Receive Node to the Send Node. In these embodiments, the Send Node is capable of verifying the status of data it transferred to the Receive Node over a one-way data link without sacrificing the unidirectionality of data flow in the system and thereby compromising the level of security provided by use of one-way data links.

77 Claims, 7 Drawing Sheets

