Network Switch for Failure Restoration

"Name of the inventor: Thomas Stern Restoring Network Switch Failures: A system and method for automatically restoring a network which contains a node with a failed switch are described. Methods for automatic protection switching systems and methods in networks for restoring switch failures are described.

The system and method for restoring a network comprises of multiple nodes connected by links. Each node comprises a central switch connected to a working fiber for transferring information between the links. A protection switch switches information from a working fiber to the protection fibers. A memory coupled to the node data indicative of the protection fibers. A fault detector detects faults that occur in a central switch. Network Fault Recovery System: The method provides a network fault recovery system which corrects switch failures so that information originally routed through the failed switch gets transmitted from its source to its destination without any faults. The method and system can be applied to any type of network topology (planar and non-planar topologies)."

Inventors

Thomas Stern