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- (54) Title:** IDENTIFICATION OF AN OPTICAL-LAYER FAILURE IN A PASSIVE OPTICAL NETWORK

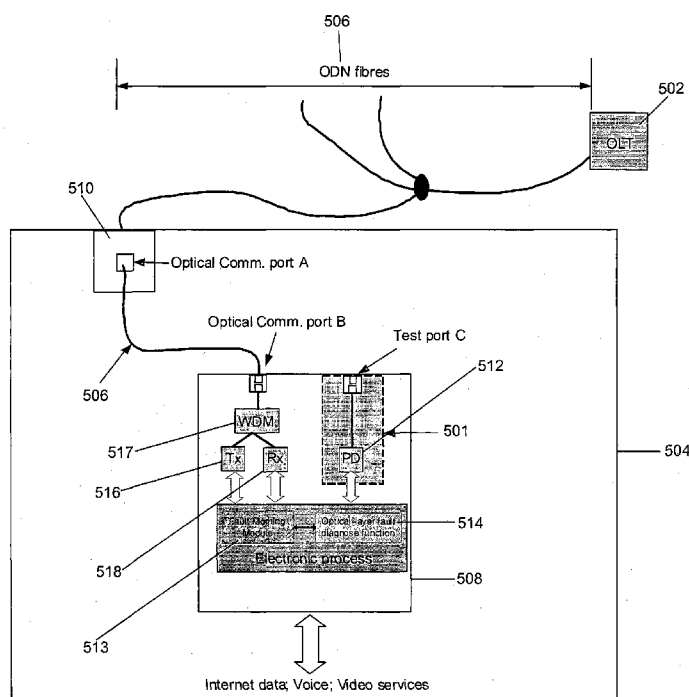


Figure 5

(57) Abstract: Embodiments of the present invention provide a method of identifying an optical-layer failure in a passive optical network (PON), the method comprising the steps of: performing a loop-back between an optical communication port of an optical network terminal (ONT) and a test port of the ONT; determining if an error persists after the loop-back; connecting the test port of the ONT to an optical distribution network (ODN) of the PON; and determining if the error persists after the connection; wherein the optical-layer failure is identified based on the results obtained from the above steps.



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