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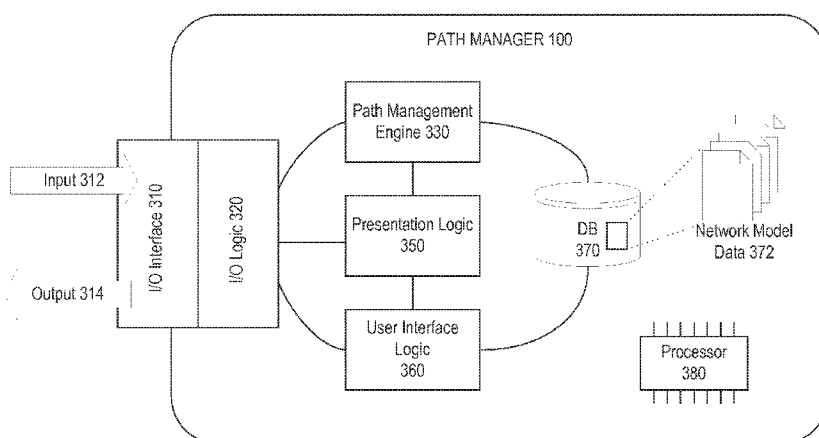
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(54) **Title:** METHOD AND SYSTEM FOR MANAGING OPTICAL DISTRIBUTION NETWORK



(57) **Abstract:** A method for generating optical paths in a photonic network is provided. A model of a photonic network is used to store relationship information that describes the relationships between photonic network elements, as well as configuration information about the elements of the photonic network. A path manager receives a request to generate one or more paths based on an input port and one or more output ports. Using the information stored in the photonic network model, the path manager generates one or more candidate paths.