

(12) **United States Patent**
Balassanian

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(54) **METHOD AND SYSTEM FOR DEMULTIPLEXING A FIRST SEQUENCE OF PACKET COMPONENTS TO IDENTIFY SPECIFIC COMPONENTS WHEREIN SUBSEQUENT COMPONENTS ARE PROCESSED WITHOUT RE-IDENTIFYING COMPONENTS**

(75) Inventor: **Edward Balassanian**, Kirkland, WA (US)

(73) Assignee: **Implicit Networks, Inc.**, Bellevue, WA (US)

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(52) **U.S. Cl.** **710/33**; 710/1; 710/3; 710/20; 710/38; 710/51; 710/131; 370/401; 370/487; 370/498; 370/535; 370/536; 370/542

(58) **Field of Search** 710/1, 3, 33, 38, 710/131, 132, 20, 51; 370/401, 487, 498, 535, 536, 542

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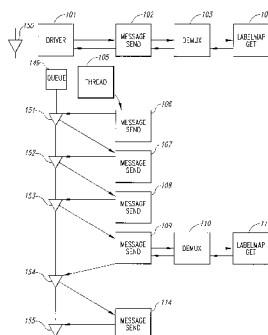
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Primary Examiner—Jeffrey Gaffin
Assistant Examiner—Tammara Peyton
(74) *Attorney, Agent, or Firm*—Perkins Coie LLP

(57) **ABSTRACT**

A method and system for demultiplexing packets of a message is provided. The demultiplexing system receives packets of a message, identifies a sequence of message handlers for processing the message, identifies state information associated with the message for each message handler, and invokes the message handlers passing the message and the associated state information. The system identifies the message handlers based on the initial data type of the message and a target data type. The identified message handlers effect the conversion of the data to the target data type through various intermediate data types.

44 Claims, 16 Drawing Sheets



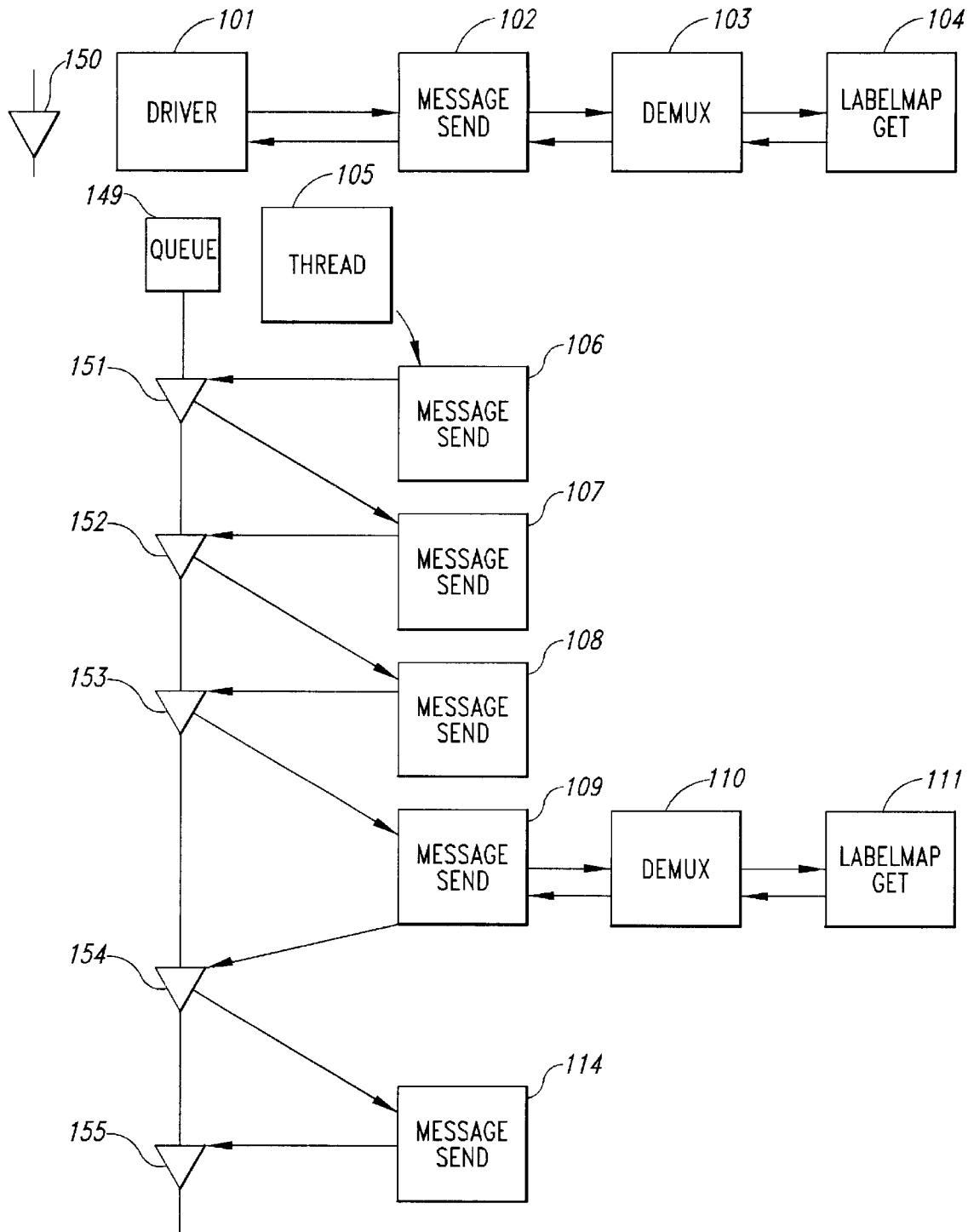


Fig. 1

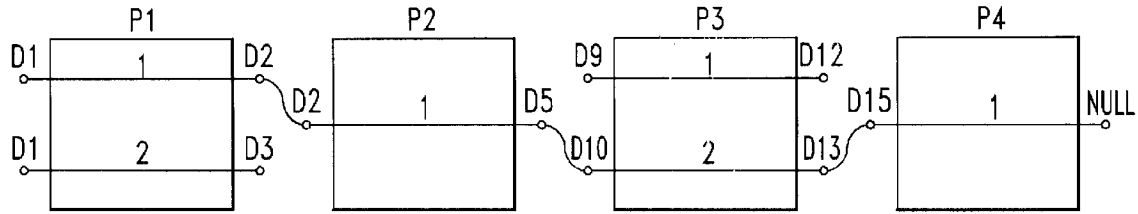


Fig. 2

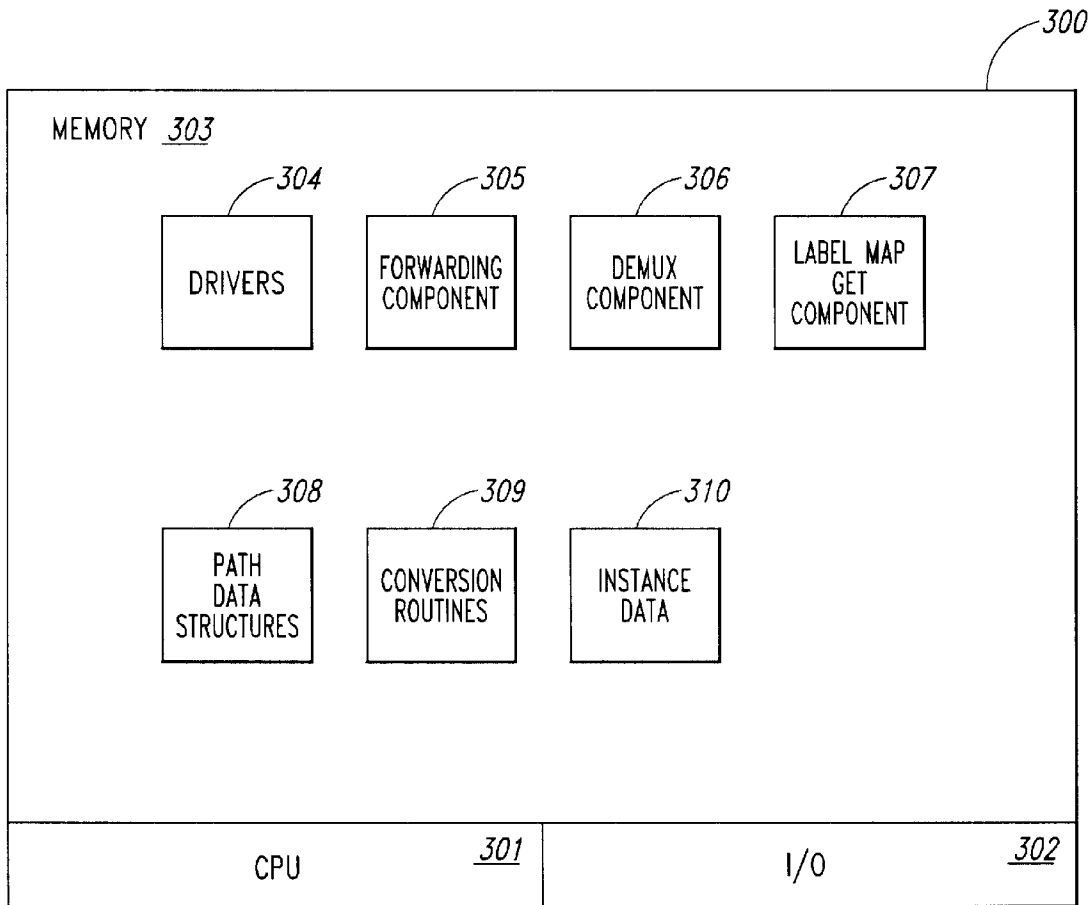


Fig. 3

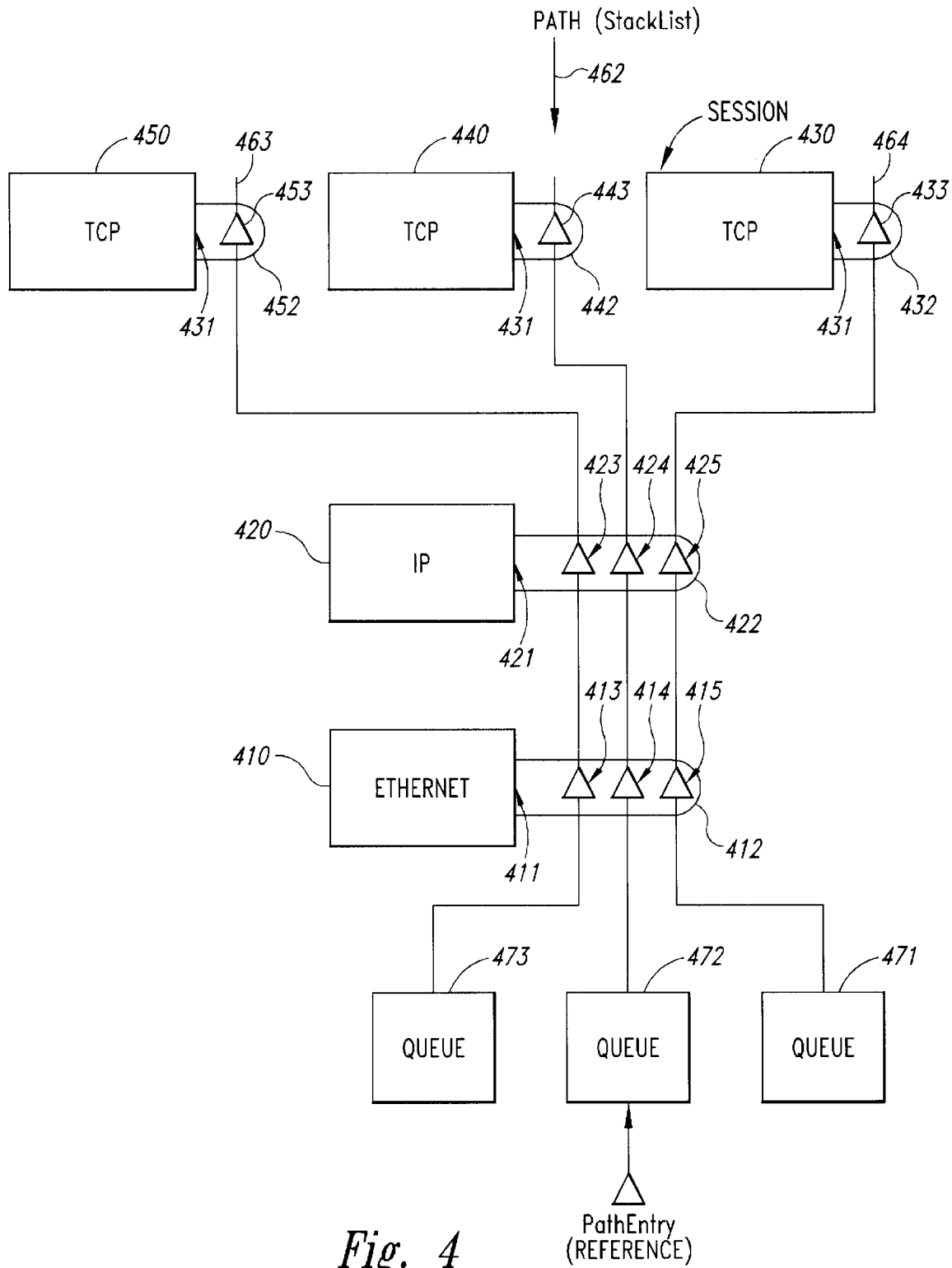


Fig. 4

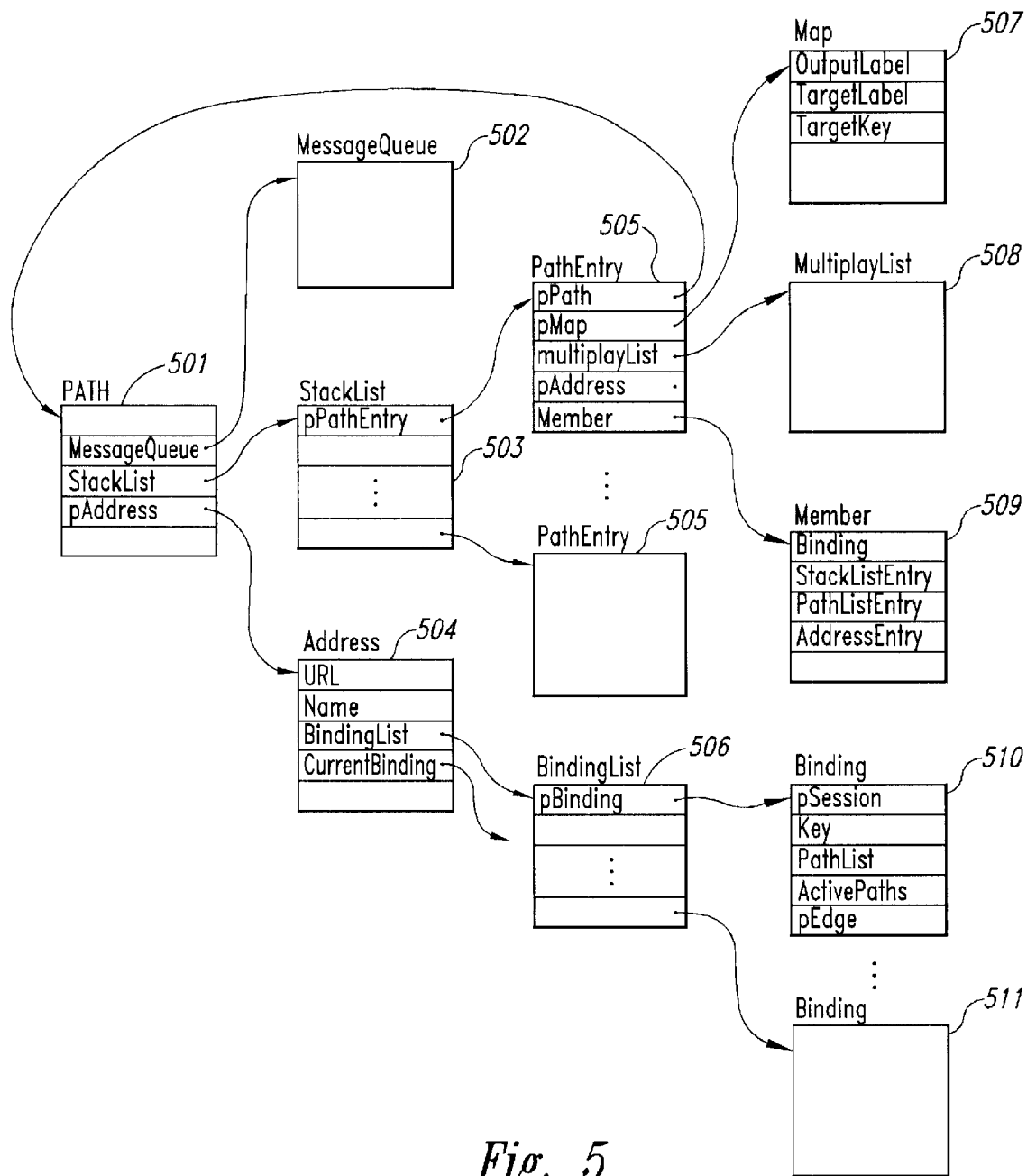


Fig. 5

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