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(54) **METHOD AND APPARATUS FOR TRAFFIC SHAPING FOR IP ROUTER QUEUES/EGRESS**

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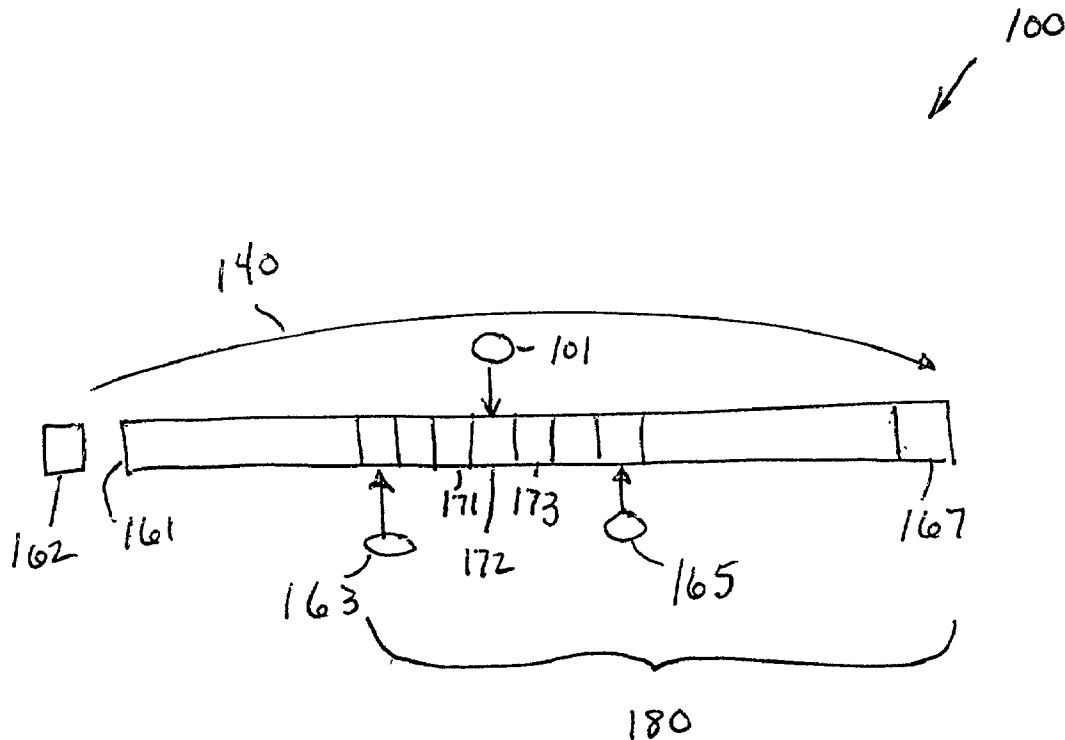
(57) **ABSTRACT**

A shaper **201** and a scheduler **203** are combined to determine a target tree **203** and insert **207** a tag into a data structure, wherein the tag is associated with a packet that has reached the head of line (HOL) of a queue in a packet router. A tag may become an eligible tag and be placed in a set of tags to be searched. Such tags are searched for the smallest tag. A packet associated with the smallest tag is transmitted if the output link is available.

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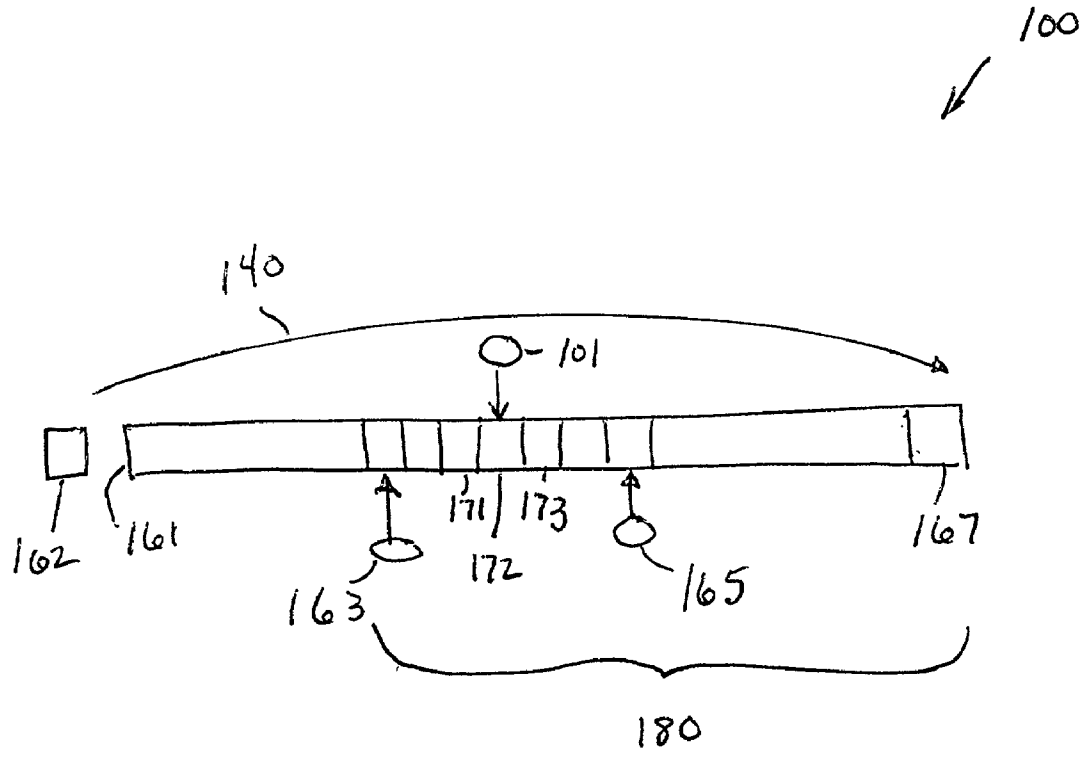


Fig. 1A

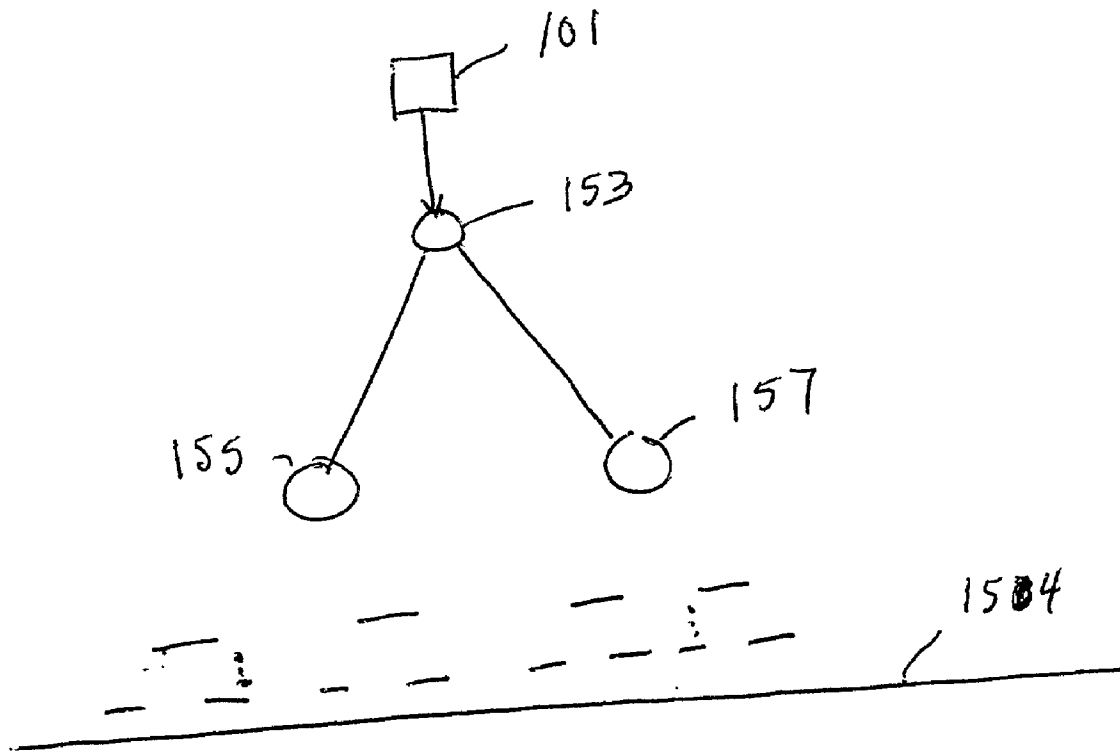


Fig. 1B

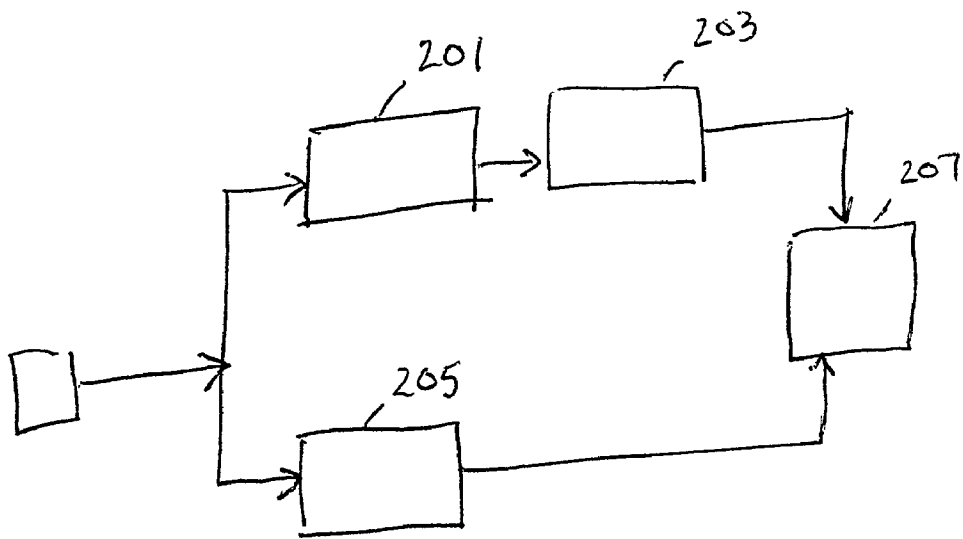


Fig. 2

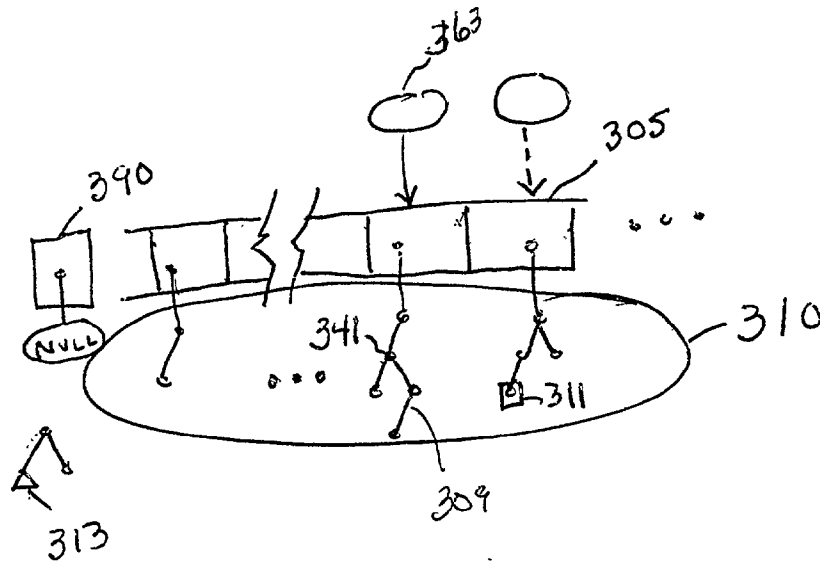


Fig. 3b

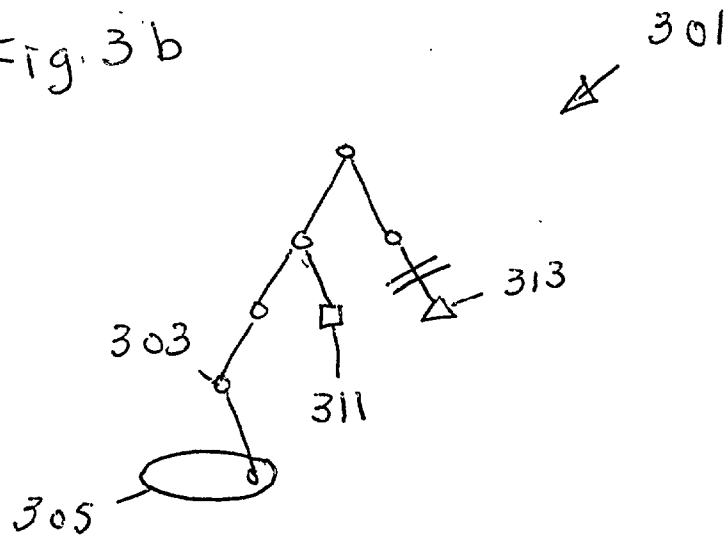


Fig. 3a

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