

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0097719 A1**

Chaskar et al.

(43) **Pub. Date:**

Jul. 25, 2002

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

(22) Filed: **Dec. 1, 2000**

Publication Classification

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(51) **Int. Cl.7** **H04L 12/28**

(52) **U.S. Cl.** **370/392; 370/408**

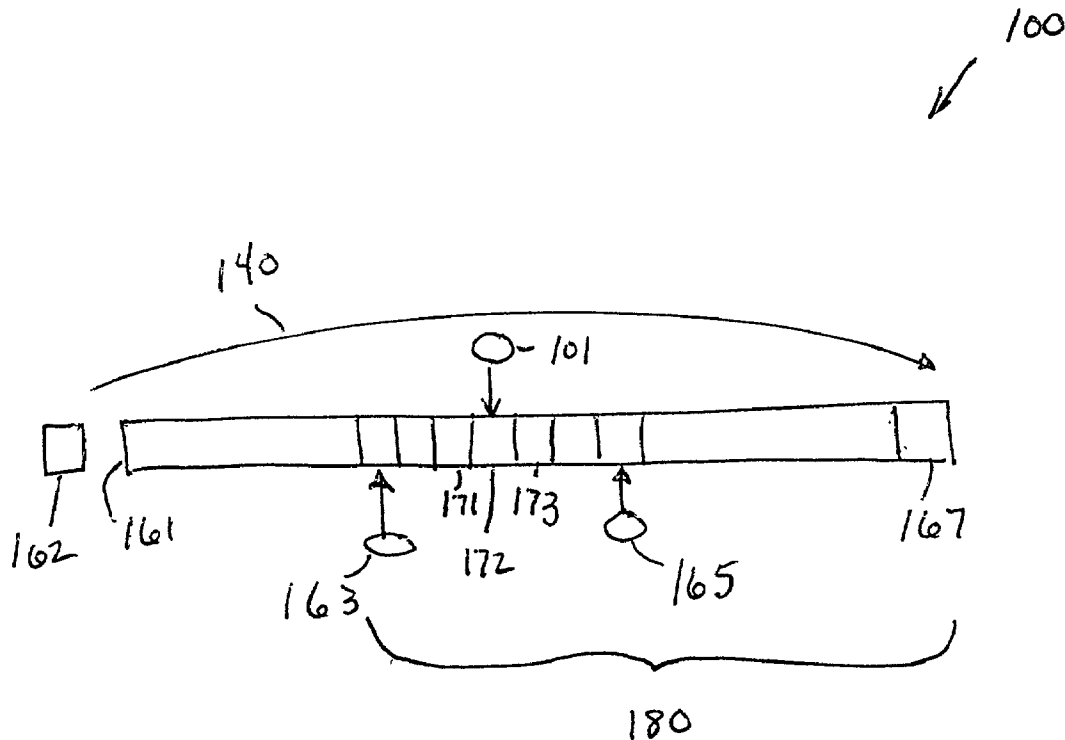
(57) **ABSTRACT**

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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(21) Appl. No.: **09/727,559**



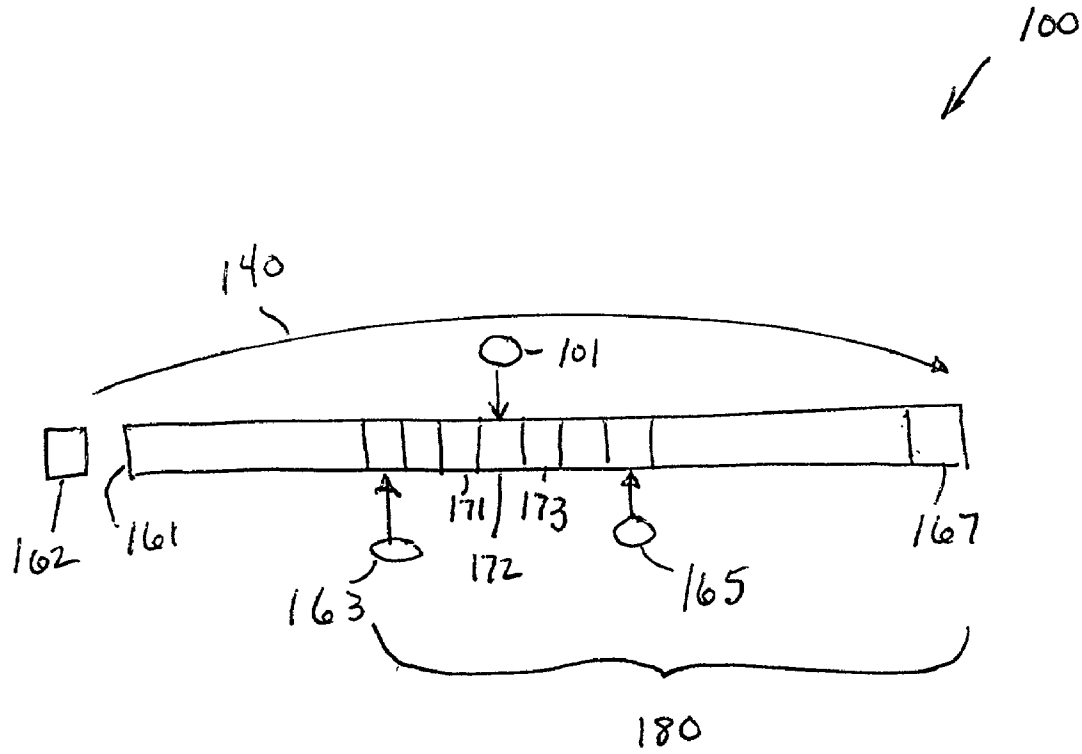


Fig. 1A

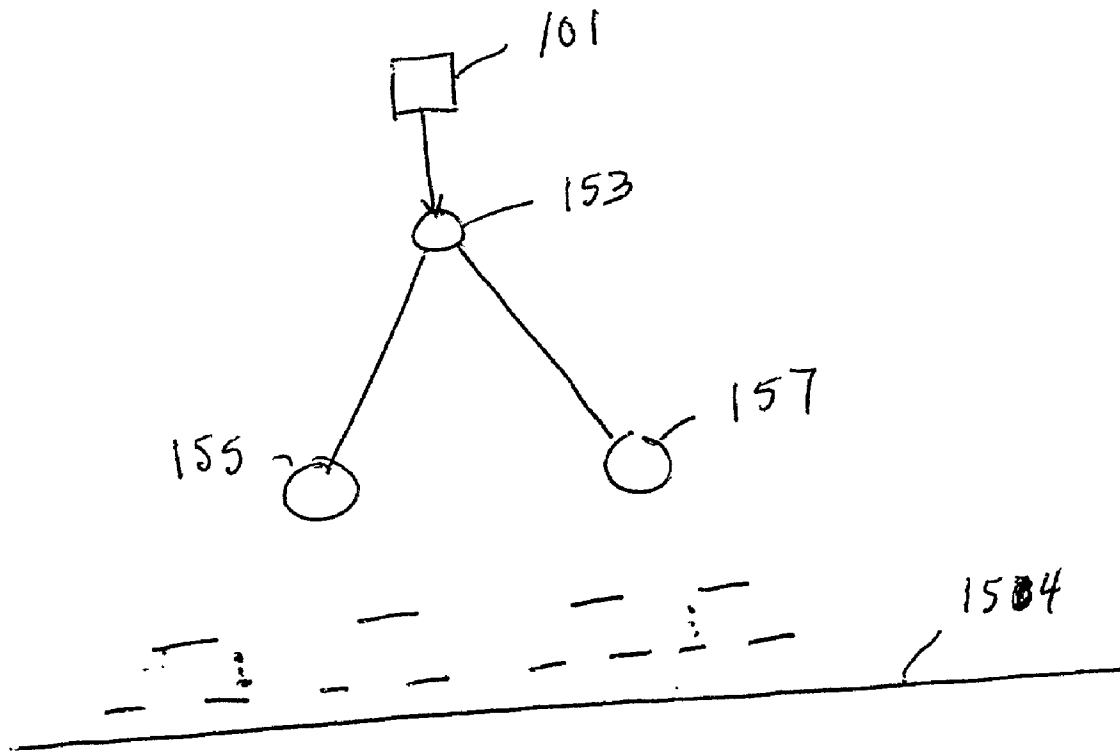


Fig. 1B

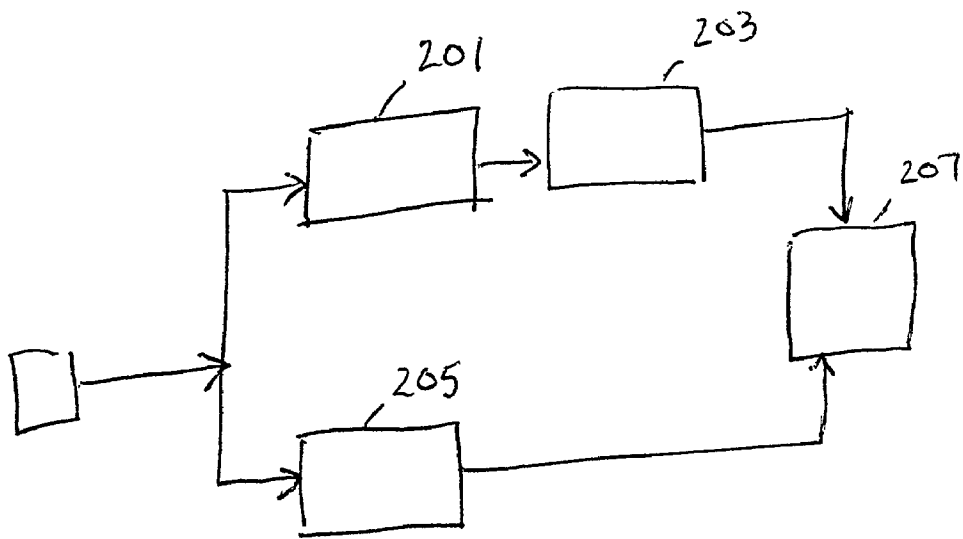


Fig. 2

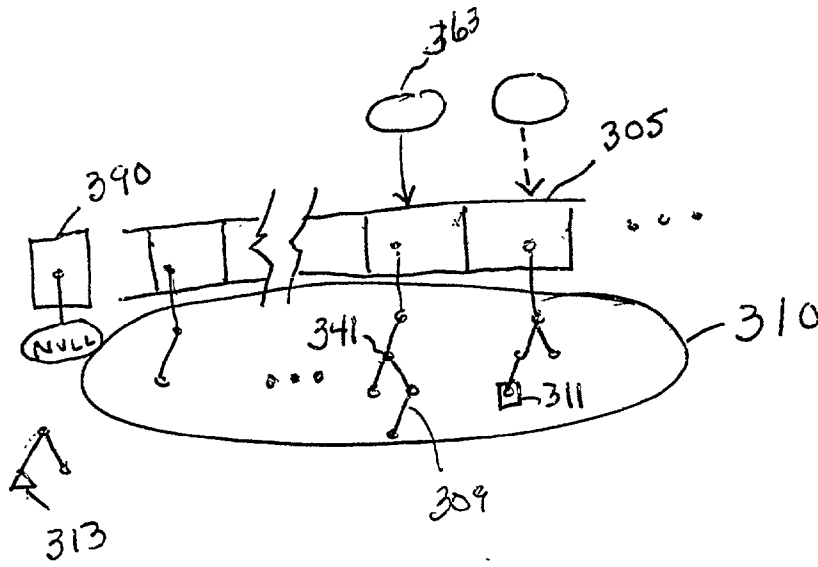


Fig. 3b

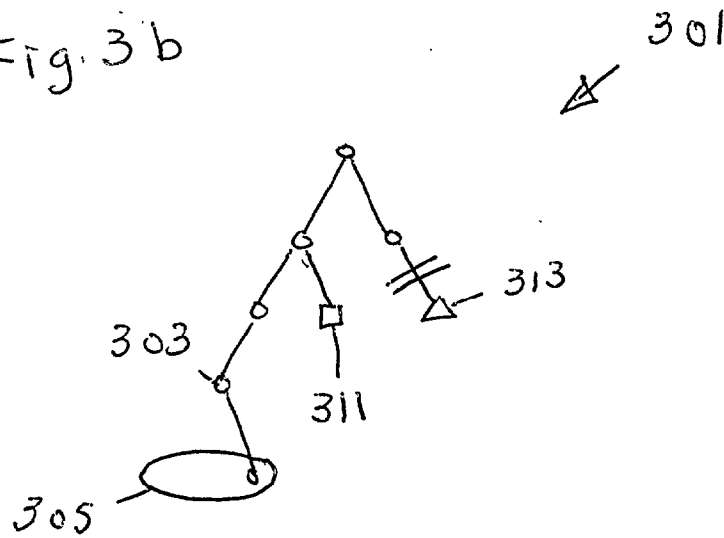


Fig. 3a

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