

(12) United States Patent

Galloway et al.

(10) **Patent No.:**

US 7,433,304 B1

(45) Date of Patent:

Oct. 7, 2008

(54) CLASSIFICATION DATA STRUCTURE ENABLING MULTI-DIMENSIONAL NETWORK TRAFFIC CLASSIFICATION AND CONTROL SCHEMES

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- Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 1239 days.

- Appl. No.: 10/236,149
- (22) Filed: Sep. 6, 2002
- (51) **Int. Cl.** H04L 12/26 (2006.01)G06F 7/00 (2006.01)H04L 12/56 (2006.01)
- Field of Classification Search 370/392; 711/221 See application file for complete search history.

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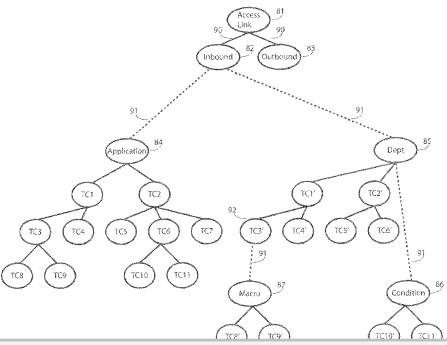
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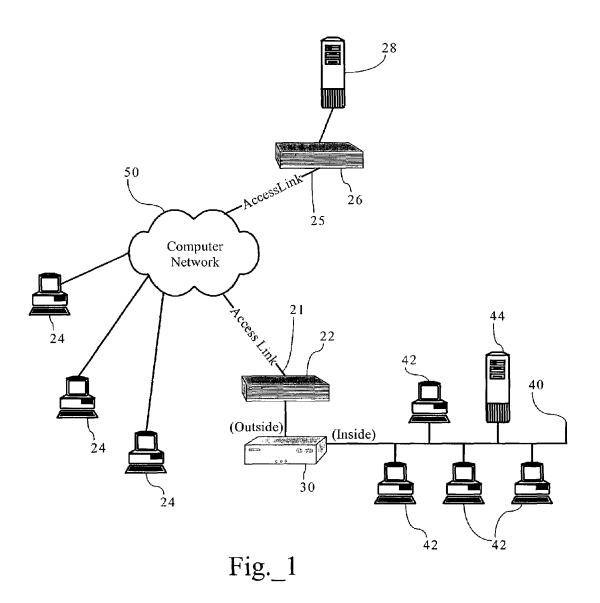
(57)**ABSTRACT**

Methods, apparatuses and systems facilitating hierarchical network traffic classification and resource allocation schemes. In one embodiment, the present invention provides traffic classification data structure facilitating creation and configuration of multi-dimensional, hierarchical network resource allocation schemes. The present invention features a hierarchical network traffic classification scheme that allows users to logically embed (or otherwise associate) one or more reference trees within selected traffic class nodes of a given traffic classification tree. In one embodiment, an administrator can create a pool of referenceable traffic classification trees and select such trees or sub-trees from the pool to achieve a variety of different traffic classification configurations. The present invention, in one embodiment, also facilitates the implementation of a system or domain-level workflow interface that features managed access links as configurable objects as opposed to the network devices operating on the access links.

28 Claims, 10 Drawing Sheets









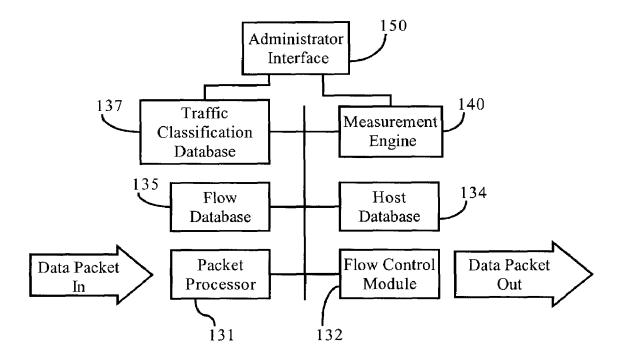
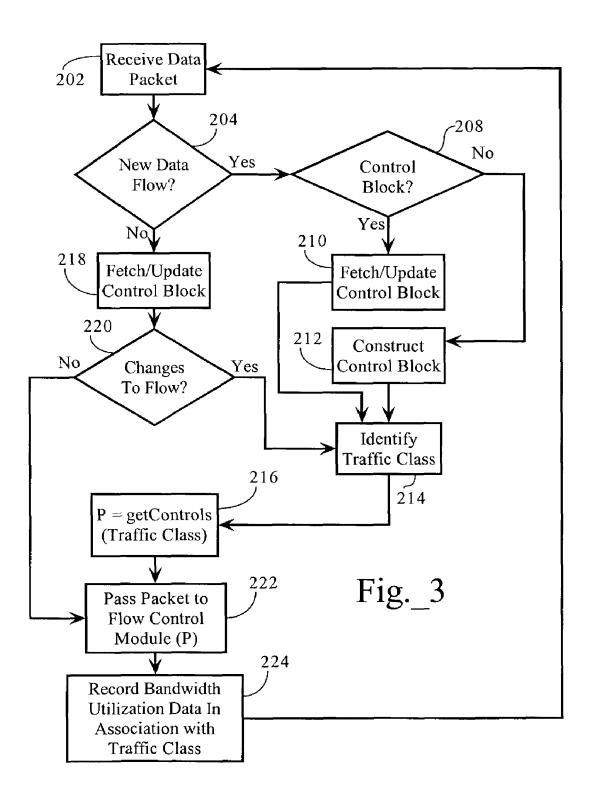
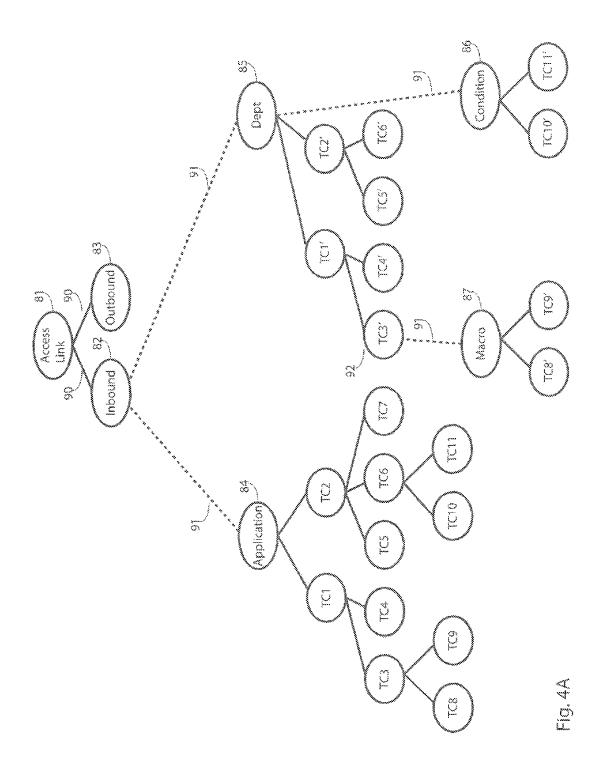


Fig._2









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