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(54) **HEURISTIC BEHAVIOR PATTERN
MATCHING OF DATA FLOWS IN ENHANCED
NETWORK TRAFFIC CLASSIFICATION**

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patent is extended or adjusted under 35
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709/224

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See application file for complete search history.

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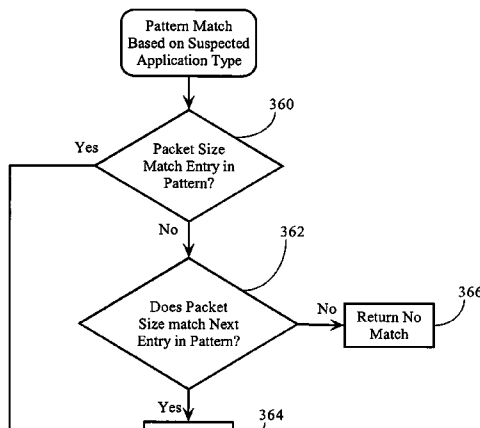
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(57)

ABSTRACT

Methods, apparatuses and systems facilitating enhanced clas-
sification of network traffic that extends beyond analysis of
explicitly presented packet attributes and holistically ana-
lyzes data flows, and in some implementations, related data
flows against known application behavior patterns to classify
the data flows. Implementations of the present invention
facilitate the classification of encrypted or compressed net-
work traffic, or where the higher layer information in the data
flows are formatted according to a non-public or proprietary
protocol.

31 Claims, 11 Drawing Sheets



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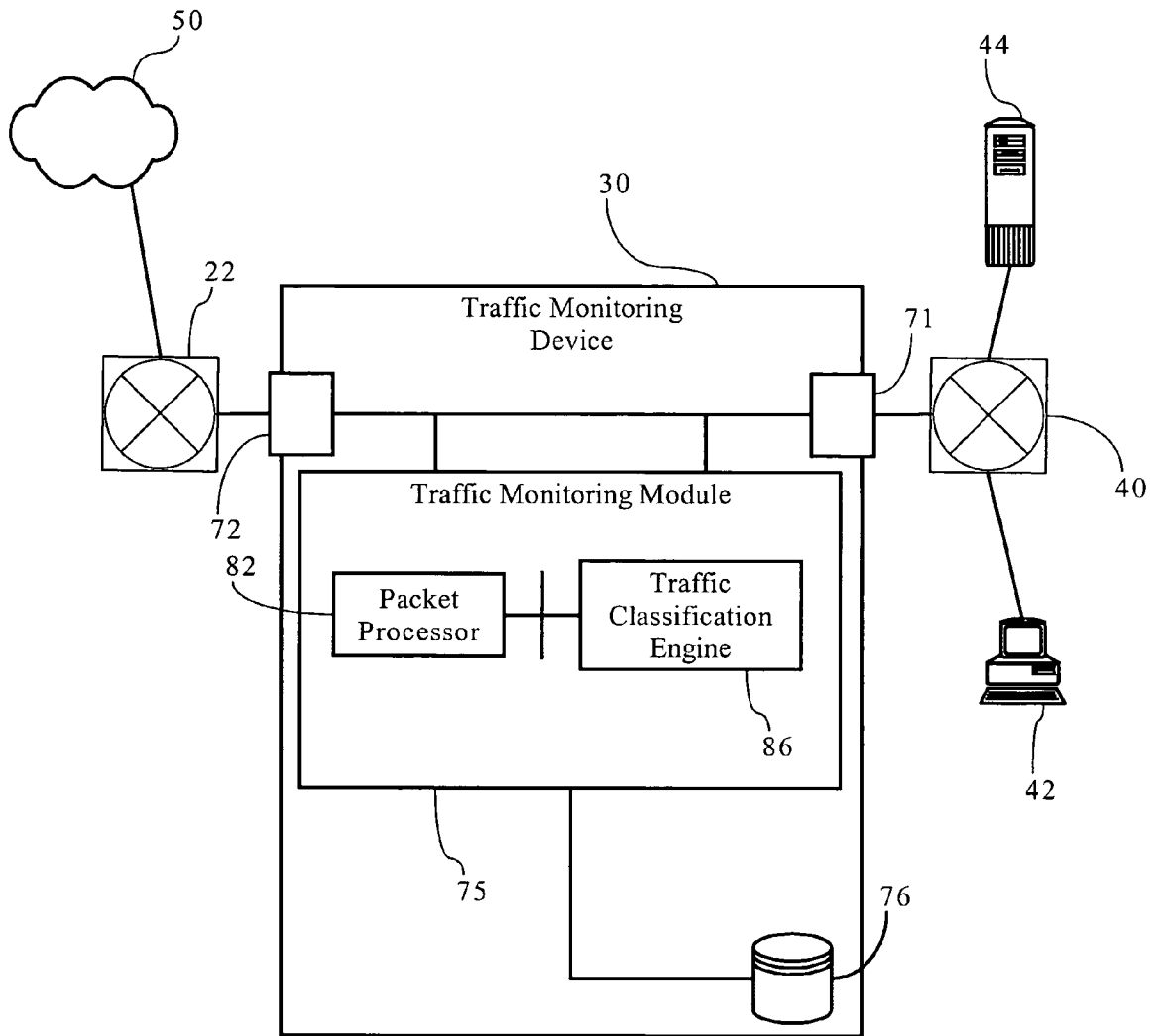
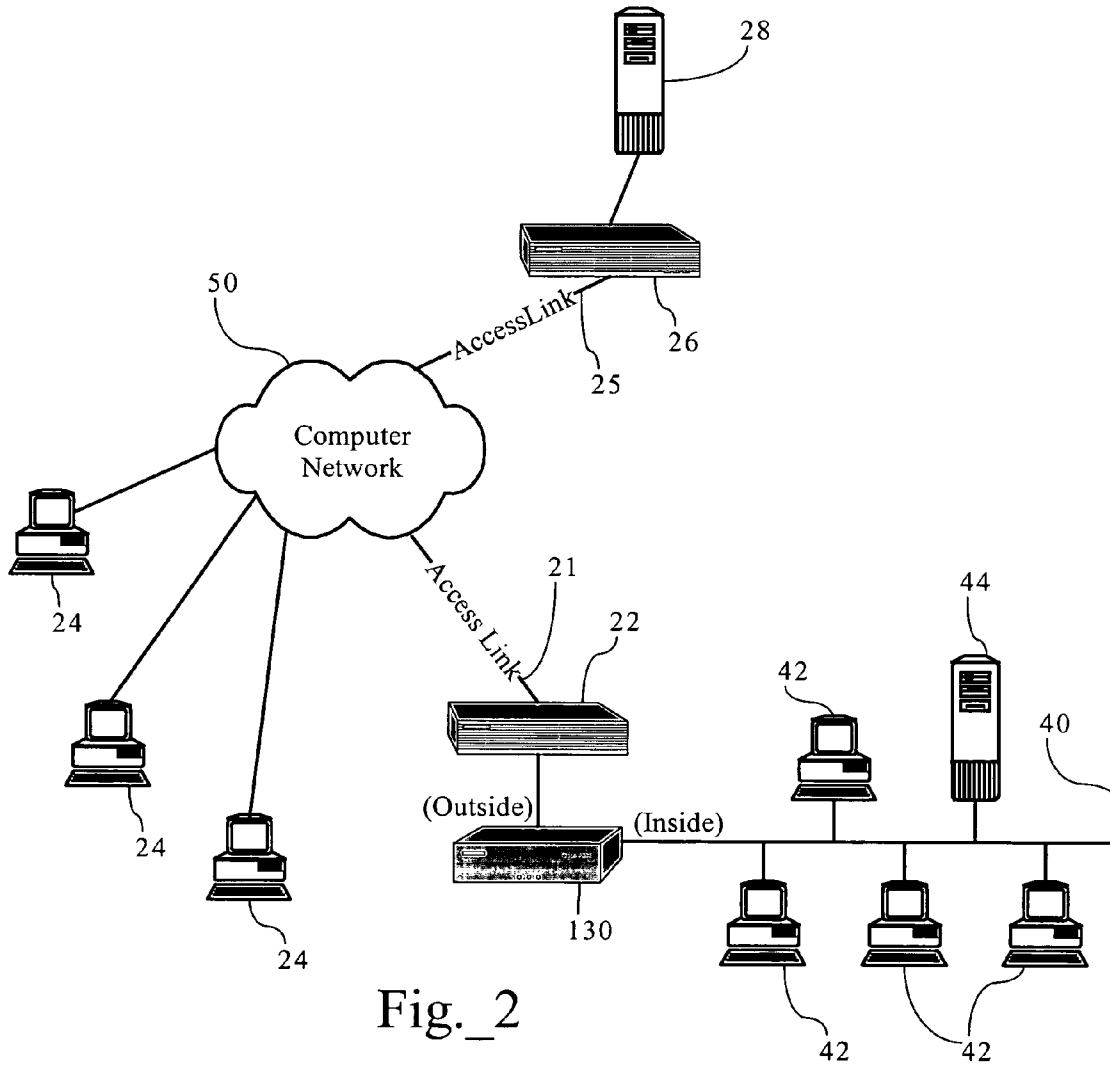


Fig. 1



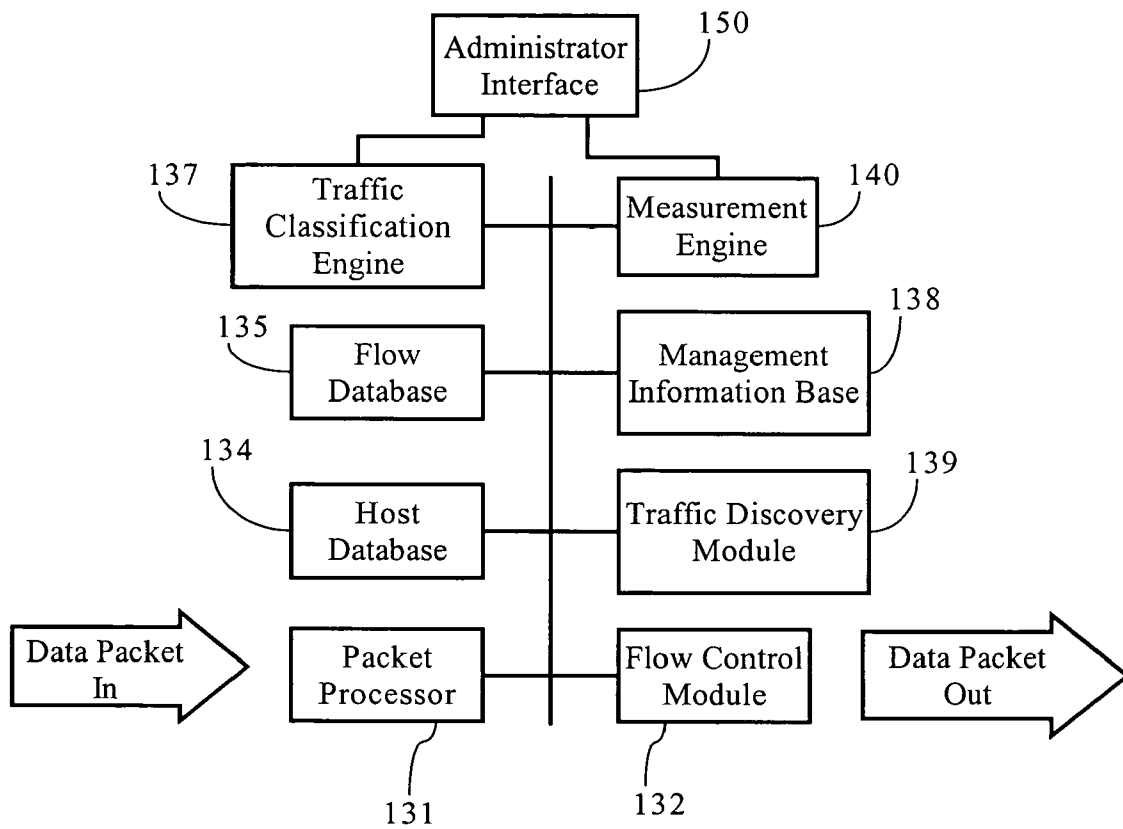


Fig. 3

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