



(12) **United States Patent**
Rash et al.

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(54) **DEVICE AND RELATED METHOD FOR ESTABLISHING NETWORK POLICY BASED ON APPLICATIONS**

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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 108 days.

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(57) **ABSTRACT**

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A function is provided in a network system for adjusting network policies associated with the operation of network infrastructure devices of the network system. Network policies are established on network devices including packet forwarding devices. The network has a capability to identify computer applications associated with traffic running on the network. A network policy controller of the network is arranged to change one or more policies of one or more network devices based on computer application information acquired. The policies changed may be network policies as well as mirroring policies. An example policy to change is direct a network device to mirror traffic to an application identification appliance for the purpose of identifying applications running on the network through a plurality of mechanisms. The function may be provided in one or more devices of the network.

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H04L 29/06 (2006.01)

(52) **U.S. Cl.**
CPC **H04L 63/20** (2013.01)

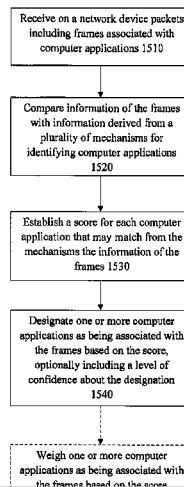
(58) **Field of Classification Search**
CPC H04L 29/06897; H04L 29/06591; H04L 12/5689; H04L 29/08081
USPC 726/1, 12-13; 713/152
See application file for complete search history.

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10 Claims, 17 Drawing Sheets

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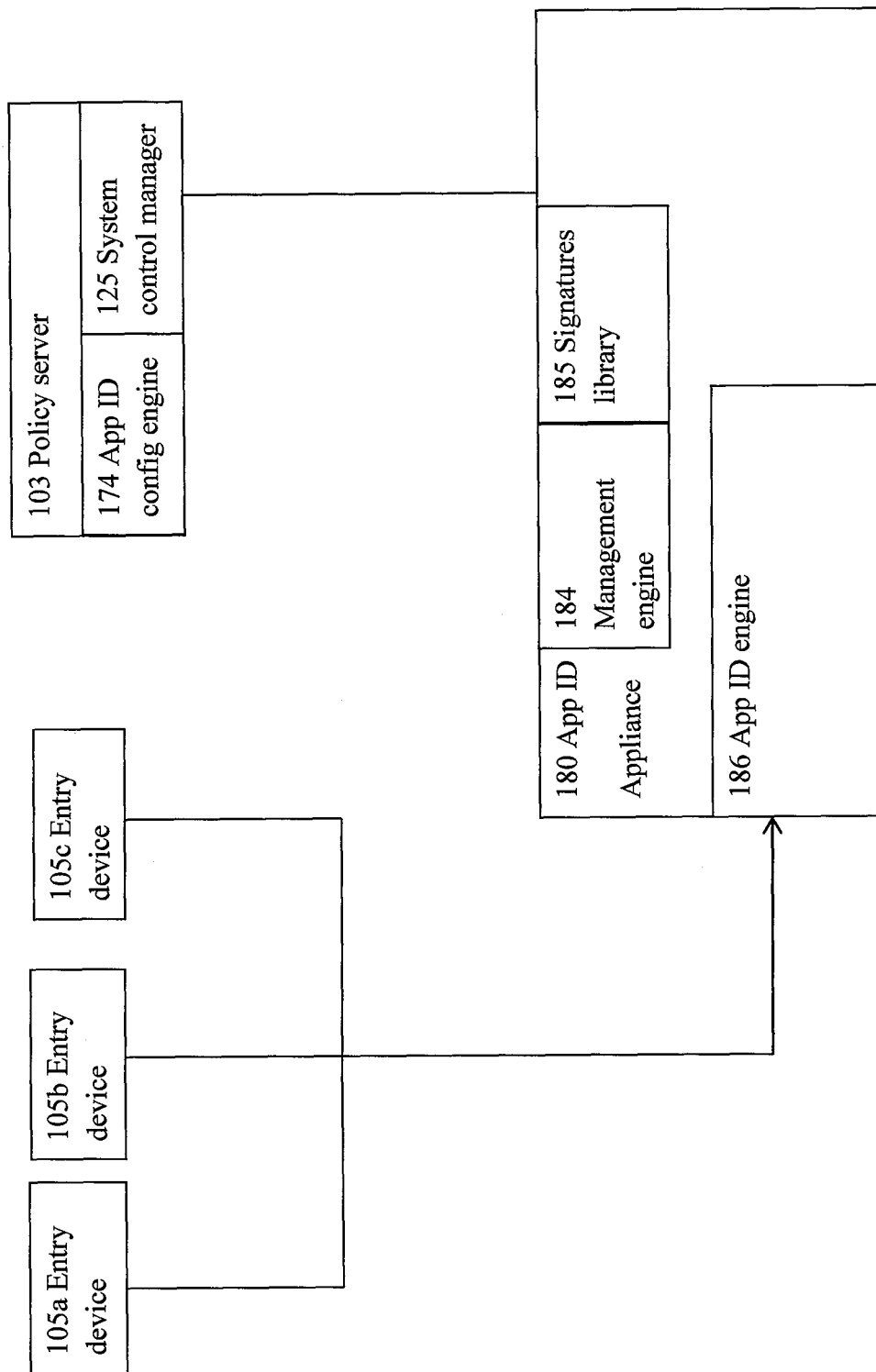
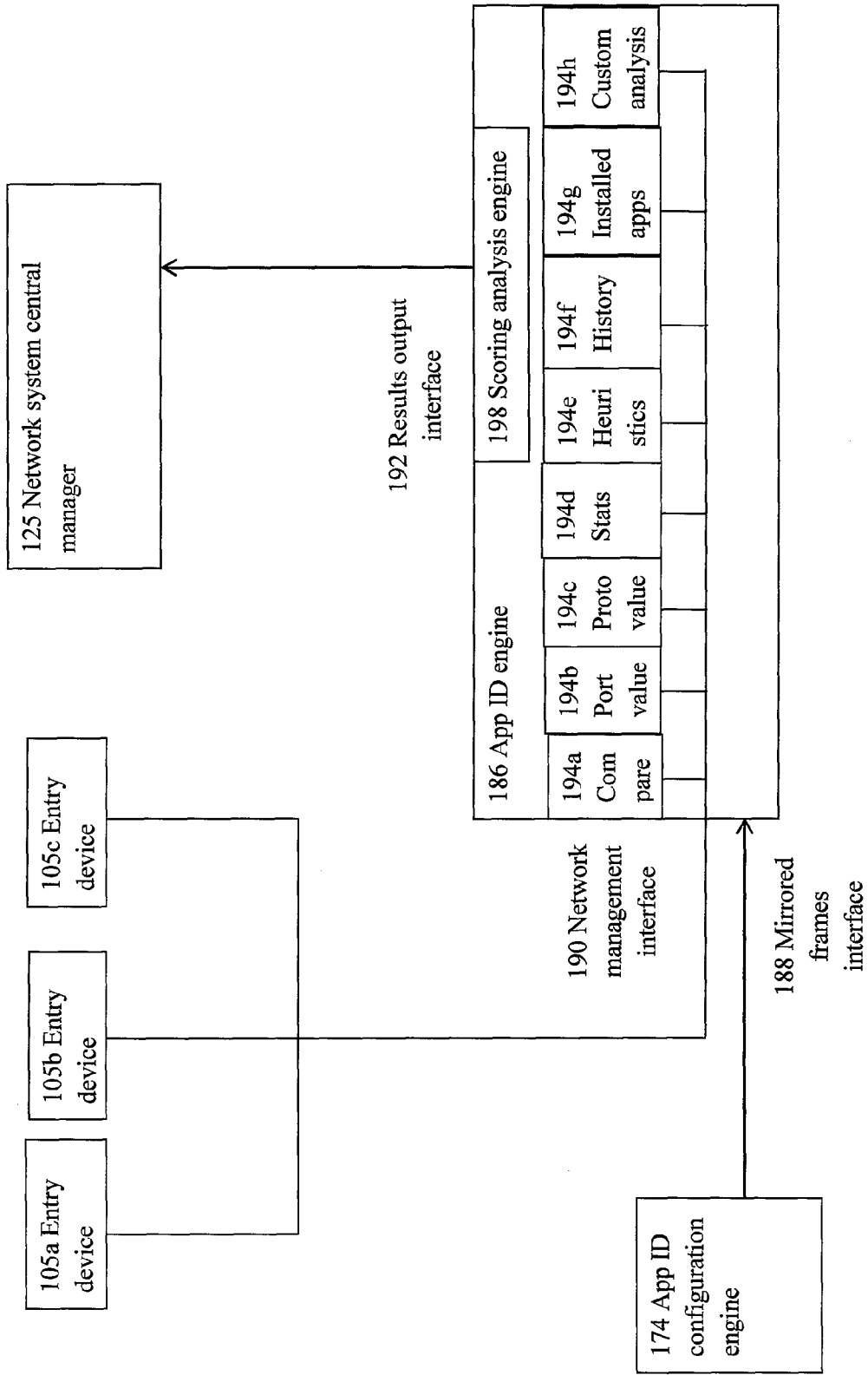


FIG. 2

FIG. 3



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