

# EXHIBIT E



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

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(54) **CONTENT PATTERN RECOGNITION  
LANGUAGE PROCESSOR AND METHODS  
OF USING THE SAME**

(75) Inventors: **Joseph Wells**, Pahrump, NV (US);  
**Michael Xie**, Palo Alto, CA (US)

(73) Assignee: **Fortinet, Inc.**, Sunnyvale, CA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 914 days.

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**Related U.S. Application Data**

(Continued)

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*Primary Examiner* — Patrice Winder

*Assistant Examiner* — Tauqir Hussain

(74) *Attorney, Agent, or Firm* — Schwegman, Lundberg & Woessner, P.A.

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**G06F 15/173** (2006.01)

(52) **U.S. Cl.** ..... **709/224**; 713/188; 726/13; 726/22

(58) **Field of Classification Search** ..... 709/223–225;  
713/188; 726/13, 22–25  
See application file for complete search history.

(57) **ABSTRACT**

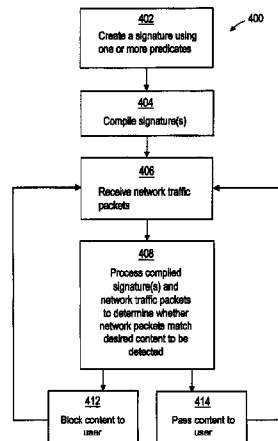
A device for detecting network traffic content is provided. The device includes a processor configured to receive a signature associated with content desired to be detected, and execute one or more functions based on the signature to determine whether network traffic content matches the content desired to be detected. The signature is defined by one or more predicates. A computer readable medium for use to detect network traffic content is also provided. The computer readable medium includes a memory storing one or more signatures, each of the one or more signatures associated with content desired to be detected. Each of the one or more signatures is defined by one or more predicates, and each of the one or more predicates can be compiled into a byte code stream that controls a logic of a network traffic screening device.

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**29 Claims, 9 Drawing Sheets**



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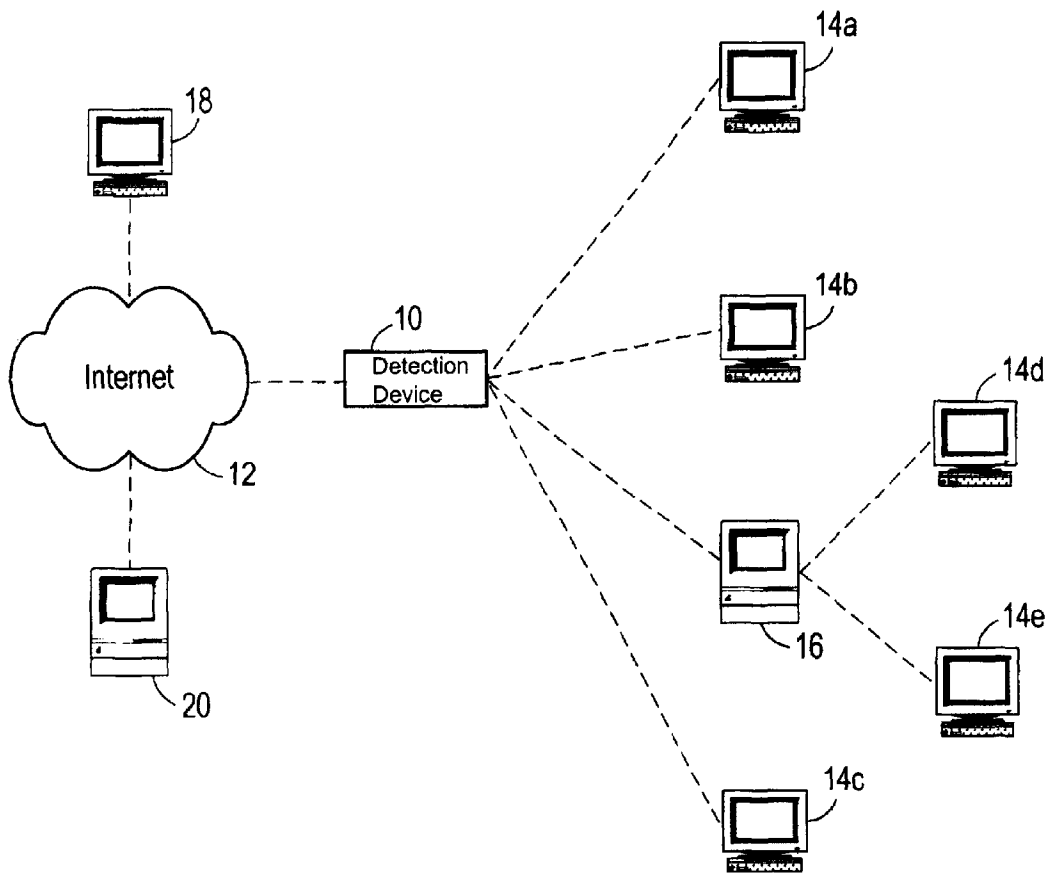


Fig. 1

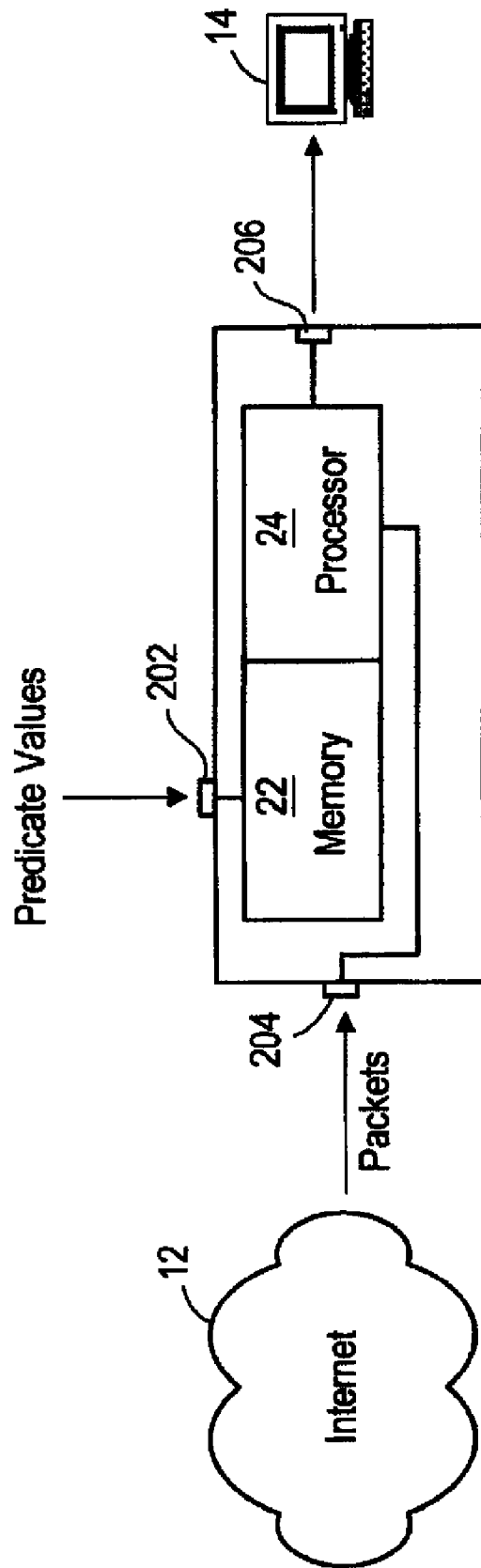


Fig. 2

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