

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Palo Alto Networks, Inc.,
Fortinet, Inc. and
WatchGuard Technologies, Inc.
Petitioners,

v.

Selective Signals, LLC
Patent Owner

Case IPR2018-00594
U.S. Patent No. 8,111,629

**PATENT OWNER’S MOTION TO AMEND
APPENDIX—CLAIM LISTING
PURSUANT TO 37 C.F.R. § 42.121**

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I. SUBSTITUTE CLAIMS—ANNOTATED

25 (Amended Claim 17). [[The method of claim 15]] A method of identifying session type, comprising:
obtaining passing packets of respectively unknown sessions and unknown session types;
obtaining traffic packet characteristics of said passing packets of respectively unknown session types;
comparing said obtained packets with each other using respectively obtained traffic packet characteristics;
grouping together those packets having similar values of said traffic packet characteristics into a presumed session;
analyzing said grouped packets of said presumed session for session characteristics; and
using said session characteristics to identify a session type of said presumed session,
wherein the traffic packet characteristics comprise parameters associated with a traffic packet, the parameters including more than packet header information, and
wherein said identifying a session type is followed by at least one of the group comprising: providing provisioning and providing control actions to the presumed session.

26. The method [[Method]] according to claim [[15]] 25, further comprising thresholding said traffic characteristics, and identifying those packets whose characteristics are mutually within said thresholds for said grouping.

27. The method of claim [[15]] 25, further comprising inserting into a header of a respective packet an indication of said presumed session with which said respective packet has been identified.

28. The method of claim [[15]] 25, comprising obtaining said characteristics belonging to said presumed session from parameter patterns common to said packets.

29. The method of claim [[15]] 25, comprising using at least one member of the group consisting of: packet length inter-arrival period variance of inter-arrival period variance of length covariance of inter-arrival period covariance of length a statistical derivative obtained from multi records of packet length a statistical derivative obtained from multi records of inter-arrival period a histogram built of at least one of the following; i. packet length ii. inter-arrival period iii. variance of inter-arrival period iv. variance of length v. covariance of inter-arrival period vi. covariance of length vii. a statistical derivative obtained from multi records of packet length viii. a statistical derivative obtained from multi records of inter-arrival period a matrix histogram built of at least one of the following; i. packet length ii. inter-arrival period iii. variance of inter-arrival period iv. variance of length v. covariance of inter-arrival period vi. covariance of length vii. a statistical derivative obtained from multi records of packet length viii. a statistical derivative obtained from multi records of inter-arrival period.

II. SUBSTITUTE CLAIMS—CLEAN

25. A method of identifying session type, comprising:

obtaining passing packets of respectively unknown sessions and unknown session types;

obtaining traffic packet characteristics of said passing packets of respectively unknown session types;

comparing said obtained packets with each other using respectively obtained traffic packet characteristics;

grouping together those packets having similar values of said traffic packet characteristics into a presumed session;

analyzing said grouped packets of said presumed session for session characteristics; and

using said session characteristics to identify a session type of said presumed session,

wherein the traffic packet characteristics comprise parameters associated with a traffic packet, the parameters including more than packet header information, and

wherein said identifying a session type is followed by at least one of the group comprising: providing provisioning and providing control actions to the presumed session.

26. The method according to claim 25, further comprising thresholding said traffic characteristics, and identifying those packets whose characteristics are mutually within said thresholds for said grouping.

27. The method of claim 25, further comprising inserting into a header of a respective packet an indication of said presumed session with which said respective packet has been identified.

28. The method of claim 25, comprising obtaining said characteristics belonging to said presumed session from parameter patterns common to said packets.

29. The method of claim 25, comprising using at least one member of the group consisting of: packet length inter-arrival period variance of inter-arrival period variance of length covariance of inter-arrival period covariance of length a statistical derivative obtained from multi records of packet length a statistical derivative obtained from multi records of inter-arrival period a histogram built of at least one of the following; i. packet length ii. inter-arrival period iii. variance of inter-arrival period iv. variance of length v. covariance of inter-arrival period vi. covariance of length vii. a statistical derivative obtained from multi records of packet length viii. a statistical derivative obtained from multi records of inter-arrival period a matrix histogram built of at least one of the following; i. packet length ii. inter-arrival period iii. variance of inter-arrival period iv. variance of length v. covariance of inter-arrival period vi. covariance of length vii. a statistical derivative obtained from multi records of packet length viii. a statistical derivative obtained from multi records of inter-arrival period.