



US007523497C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (12302nd)
United States Patent
Cohen

(10) **Number:** **US 7,523,497 C1**(45) **Certificate Issued:** **May 22, 2023**(54) **PACKET FLOODING DEFENSE SYSTEM**(75) **Inventor:** **Donald N. Cohen**, Los Angeles, CA
(US)(73) **Assignee:** **PACSEC3 LLC****Reexamination Request:**

No. 90/014,746, May 3, 2021

Reexamination Certificate for:Patent No.: **7,523,497**
Issued: **Apr. 21, 2009**
Appl. No.: **10/841,064**
Filed: **May 7, 2004****Related U.S. Application Data**(63) Continuation of application No. 09/715,813, filed on
Nov. 16, 2000, now Pat. No. 6,789,190.(51) **Int. Cl.****G06F 11/30** (2006.01)
H04L 47/10 (2022.01)
H04L 47/2441 (2022.01)
H04L 47/32 (2022.01)
H04L 9/40 (2022.01)(52) **U.S. Cl.**CPC **H04L 47/10** (2013.01); **H04L 47/2441**
(2013.01); **H04L 47/32** (2013.01); **H04L**
63/1458 (2013.01)(58) **Field of Classification Search**

None

See application file for complete search history.

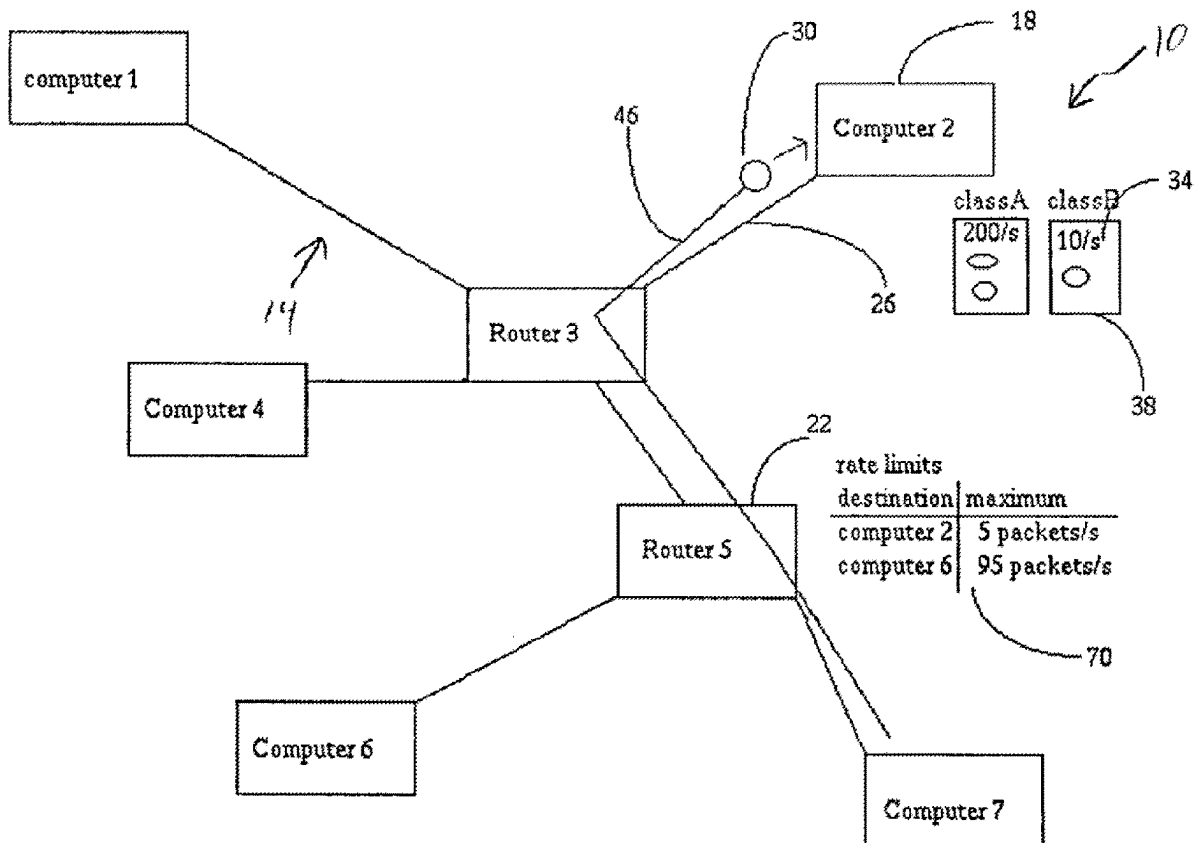
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References CitedTo view the complete listing of prior art documents cited
during the proceeding for Reexamination Control Number
90/014,746, please refer to the USPTO's Patent Electronic
System.*Primary Examiner* — Colin M LaRose

(57)

ABSTRACT

The invention prevents "packet flooding", where an attacker
uses up all available bandwidth to a victim with useless data.
It can also be used to prevent some other related denial of
service attacks. The defense is distributed among cooperat-
ing sites and routers. The sites identify data they don't want.
The routers help sites to determine which routers forward
that data. The sites then ask these routers to reduce the rate
at which such data is forwarded. Variations of the defense
protect against pocket flooding attacks on routers and attacks
in which an attacker tries to use up some service offered by
a site.



**EX PARTE
REEXAMINATION CERTIFICATE**

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW. 5

AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

The patentability of claims 7 and 10 is confirmed. 10

Claims 1, 4, 13 and 16 are cancelled.

Claims 2, 3, 5, 6, 8, 9, 11, 12, 14, 15, 17 and 18 were not
reexamined.

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