**Title**: SYSTEM AND METHOD FOR PROTECTING COMMUNICATION DEVICES FROM DENIAL OF SERVICE ATTACKS

**Abstract**: A system for preventing successful denial of service attacks comprises a first communication device, a second communication device, and a network. The first and second communication devices establish a communication session via the network. Based on various information, such as a pre-shared secret, one of the communication devices determines a network access filter value and compares this value to at least one data frame in order to authenticate such data frame without committing significant computing resource and any memory space. By updating the network access filter over time, an unauthorized user who discovers the outdated network access filter values is prevented from successfully launching a denial of service attack.
Date of publication of the international search report:
9 October 2008
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: H04L 9/00( 2006.01),9/18( 2006.01)

USPC: 713/160, 168, 170
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
U.S.: 713/160,168,170

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<td>X</td>
<td>US 7,290,281 B1 (McGrew) 08 August 2002 (08.08.2007), Full Text</td>
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See patent family annex.

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