Abstract: Packets of a certain type from a certain source are directed to a system that estimates the set of destinations and the number of new destinations for which that source has sent packets during a time window $T_i$. Instead of maintaining tables with the complete destination addresses for each source, the destination addresses are hashed and stored in a small bit array. The set of destinations for a number of successive time window are OR'ed for building cumulative tables $C_i$, where $C_i$ includes all destinations that have been seen between $T_{i-1}$ and $T_i$. Thenew destinations are determined by counting the destination set in $T_i$ but not in $C_{i-1}$. Any change from the typical patternscan be suspected as being a slow scan.
(88) Date of publication of the international search report:
11 June 2009
## INTERNATIONAL SEARCH REPORT

### A. CLASSIFICATION OF SUBJECT MATTER

**INV. H04L29/06**

According to International Patent Classification (IPC) or to both national classification and IPC.

### B. FIELDS SEARCHED

**H04L**

Minimum documentation searched (classification system followed by classification symbols): 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 practical, search terms used):

**EPO-Internal, INSPEC**

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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Further documents are listed in the continuation of Box C

See patent family annex.

- **X** Special categories of cited documents:
  - **A** document defining the general state of the art which is not considered to be of particular relevance
  - **E** earlier document but published on or after the international filing date
  - **L** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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### Date of the actual completion of the international search

17 April 2009

### Date of mailing of the international search report

06/05/2009

**Name and mailing address of the ISA:**

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**Authorized officer:**

Bertolissi, Edy
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