Title: DATABASE QUERY PROCESSING ACROSS TWO PRIVATE DATABASES

\[
\begin{align*}
V_R & := \text{ids in } T_R \\
V_R' & := \text{subset of } V_R \text{ that match the DNA sequence} \\
V_S & := \text{ids in } T_S \text{ that took the drug} \\
V_S' & := \text{subset of } V_S \text{ with adverse reaction} \\
T & \text{ gets } \text{IntersectionSize}(V_R, V_S') \\
T & \text{ gets } \text{IntersectionSize}(V_R, (V_S - V_S')) \\
T & \text{ gets } \text{IntersectionSize}(V_R', V_S) \\
T & \text{ gets } \text{IntersectionSize}((V_R - V_R'), (V_S - V_S'))
\end{align*}
\]

Abstract: A system, method, and computer program product for processing a query spanning separate databases while revealing only minimal information beyond a query answer, by executing only specific information-limiting protocols according to query type.
Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 7 April 2005

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC 7**

G06F1/00

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)

IPC 7  G06F

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
</table>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

**Date of the actual completion of the international search**

21 January 2005

Date of mailing of the international search report

11/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HN Laakl., Tel. (+31-70) 940-2040, Fax (+31-70) 940-3016

Authorized officer

San-Bento Furtado, P
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<tr>
<td>A</td>
<td>HUBERMAN B.; FRANKLIN M.; HOGG T.: &quot;Enhancing Privacy and Trust in Electronic Communities&quot; ACM CONFERENCE ON ELECTRONIC COMMERCE, 3 November 1999 (1999-11-03), pages 78-86, XP002313510 DENVER, COLORADO, USA cited in the application page 79, right-hand column page 82, right-hand column - page 83 page 85 - page 86</td>
<td>1-13</td>
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