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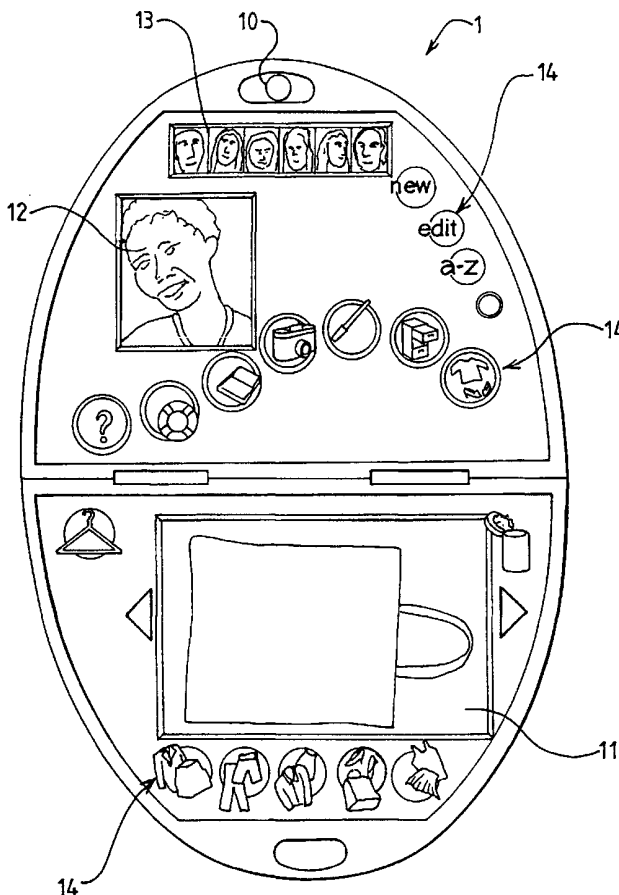
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- (71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **BECKSTEAD, Sandra** [GB/GB]; The old Coach House, 4a Chapel Street, Wellesbourne, Warwickshire CV35 9QU (GB). **VON HASELBERT, Sandra** [GB/GB]; 93b Stoke Newington High Street, London N16 8EL (GB). **JEFFERYS, Marianne** [GB/GB]; 11 Estelle Road, London NW3 2JX (GB). **CLARK, Catherine** [GB/GB]; 29 Stephendale Road, London SW6 2LT (GB).
- (74) Agent: **HOARTON, Lloyd, D., C.**; Forrester Ketley & Co., Forrester House, 52 Bounds Green Road, London N11 2EY (GB).
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[Continued on next page]

(54) Title: IMPROVEMENTS IN OR RELATING TO COMMUNICATION DEVICES



(57) Abstract: A communication device (1) operable to communicate with other communication devices in a network, one or more of the communication devices having means to receive identification data to authorize or identify a user as part of a closed community of users within the network, the closed community being defined by those communication devices within the network which have matching identification data.



WO 01/47210 A3



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INTERNATIONAL SEARCH REPORT

In: ational Application No

PCT/GB 00/04909

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L12/18 H04L29/06 H04M1/725 G06F17/60

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 H04L G06F H04M

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, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-------------------------------------|
| X A | WO 98 20410 A (COMPUSERVE INC) 14 May 1998 (1998-05-14) abstract page 1, line 5 -page 2, line 7 page 4, line 19 -page 7, line 8 page 11, line 20 -page 16, line 17 page 25, line 1 -page 30, line 8 --- | 1,5,7,9, 20-22 6,23,25, 26 |
| X A | FR 2 760 159 A (NETGEM) 28 August 1998 (1998-08-28) abstract page 1, line 9 -page 2, line 5 page 3, line 5 -page 4, line 11 page 4, line 22 -page 5, line 25 --- | 1,2,5,8, 9,20 7 |
| | -/-- | |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° 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)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Kesting, V

INTERNATIONAL SEARCH REPORT

In. ational Application No

PCT/GB 00/04909

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
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| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | PARNES P ET AL: "The CDT mStar environment: scalable distributed teamwork in action" GROUP '97. PROCEEDINGS OF THE INTERNATIONAL ACM SIGGROUP CONFERENCE ON SUPPORTING GROUP WORK. THE INTEGRATION CHALLENGE, PROCEEDINGS OF GROUP '97: CONFERENCE ON SUPPORTING GROUP WORK, PHOENIX, AZ, USA, 16-19 NOV. 1997, pages 167-176, XP002172271 1997, New York, NY, USA, ACM, USA ISBN: 0-89791-897-5 | 1,5,7,9, 10,20,21 |
| A | abstract sections "Design Issues", "The mStar Environment" --- | 6,11,12, 22,23 |
| X | WO 97 29416 A (INTEGRATED TECH AMERICA ;BRADLEY JAMES V (US); MOONEY DAVID M (US)) 14 August 1997 (1997-08-14) | 1,2,5,7, 9,20,21 |
| A | page 1, line 14 -page 2, line 17 page 5, line 2 - line 11 page 9, line 20 -page 10, line 6 page 11, line 16 - line 22 page 12, line 27 -page 13, line 4 page 14, line 3 - line 7 page 14, line 17 - line 23 page 16, line 4 - line 10 page 17, line 13 -page 18, line 14 --- | 6 |
| X | FR 2 737 797 A (GERMANEAU BENOIT LUC GILDAS) 14 February 1997 (1997-02-14) | 1,2,4,5, 8,9,11, 20 |
| A | page 2, line 1 - line 16 page 3, line 1 - line 18 page 3, line 30 -page 4, line 6 page 7, line 19 - line 25 --- | 10 |
| X | VERSCHUREN T: "Smart access: strong authentication on the Web" COMPUTER NETWORKS AND ISDN SYSTEMS,NORTH HOLLAND PUBLISHING. AMSTERDAM,NL, vol. 30, no. 16-18, 30 September 1998 (1998-09-30), pages 1511-1519, XP004138682 ISSN: 0169-7552 | 1,2,5,9, 20,28 |
| A | abstract sections 1., 2., 3., 5. page 1516, right-hand column, line 10 - line 12 --- -/-- | 4,6 |

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/04909

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | US 5 987 612 A (SHIRAISHI YOSHIHIKO ET AL) 16 November 1999 (1999-11-16) column 3, line 60 -column 4, line 28 column 3, line 51 -column 5, line 34 column 8, line 43 -column 11, line 10 column 11, line 44 - line 61 --- | 1,2,5,9, 20,28 |
| X | LISA PREUSS: "Rainbow Technologies Adds USB Support For PC And Macintosh Software Developers To Sentinel Line" PRESS RELEASE RAINBOW TECHNOLOGIES, 17 November 1998 (1998-11-17), XP002139273 --- | 20 |
| A | the whole document | 1-3,7-9 |
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| A | abstract column 1, line 3 -column 5, line 29 ----- | 6,8,9, 11,12 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 00/04909

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-12, 20, 21-26, 28

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-12,20,21-26,28

Communication device adapted to operate in a closed community, network of these devices, or method of establishing a closed community within this network wherein the community is based on matching identification data distributed to the devices.

2. Claims: 13-19,27

Communication device adapted to associate graphical information to an address record in the address database

3. Claims: 29-38

Network server having a database, each record in the database comprising an image of an item and a unique identifier of a communication device associated with the item

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/04909

| Patent document cited in search report | A | Publication date | Patent family member(s) | Publication date |
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