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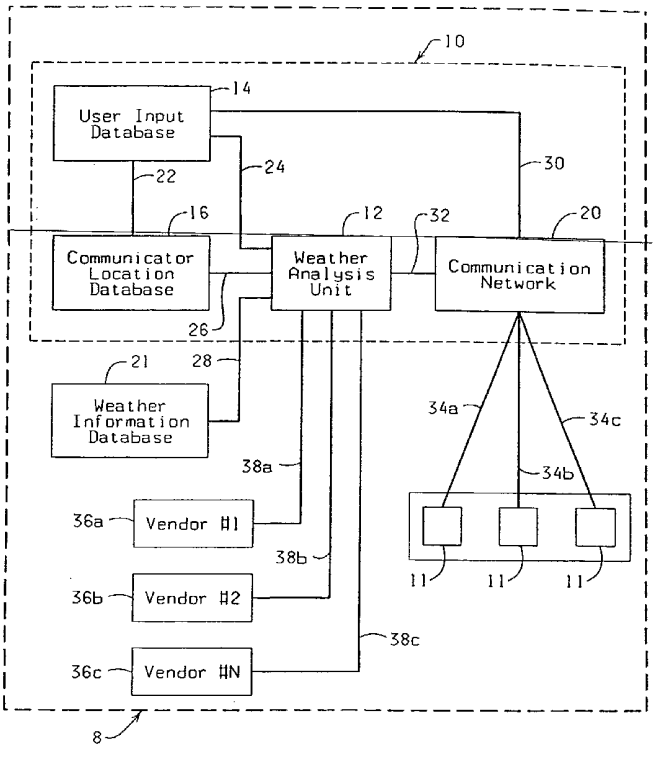
*[Continued on next page]*

(54) Title: INTERACTIVE WEATHER ADVISORY SYSTEM




(57) Abstract: A broadcast network for selectively transmitting individualized weather outputsignals to remote communicator devices. The broadcast network is comprised of a userinput database, a communicator location database, a weather information database, a weather analysis unit and a communication network. The user input database contains user-defined parameters and each of the user-defined parameters includes a spatial range identifier and a user profile. The user profile in each of the user-defined parameters utilizes a user identifier code and identifies a communicator device associated with a particular user. The communicator location database contains real-time data indicative of the spatial locations of the communicator devices. The weather information database contains real-time weather data for the spatial locations contained in the communicator location database. The weather analysis unit repeatedly compares the spatial range identifier included in the user-defined parameters and the spatial location of each communicator device contained in the communicator location database with the real-time weather data and generates an individualized weather output signal including weather information within the spatial range identified by the spatial range identifier for each user-defined parameter. The communication network transmits each individualized weather output signal to the particular communicator identified by the user identifier code defined in the user profile included in the user-defined parameter corresponding to the real-time weather data whereby a user can receive weather information in real-time specific to the user's immediate location regardless of whether or not the user's location remains fixed or dynamic throughout time.

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/06

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)
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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<br><br>A | US 6 047 327 A (GILLESPIE DANIEL JOSHUA ET AL) 4 April 2000 (2000-04-04)<br>column 3, line 35 -column 3, line 54<br>column 4, line 33 -column 4, line 41<br>column 4, line 65 -column 5, line 39<br>column 10, line 41 -column 10, line 46<br>column 13, line 27 -column 13, line 34<br>column 13, line 59 -column 14, line 51<br>column 16, line 24 -column 16, line 43<br>column 18, line 14 -column 18, line 26<br>column 21, line 7 -column 21, line 23<br>column 21, line 42 -column 22, line 58;<br>figures 1-5,7,9; table 1<br>---<br>-/-- | 1-10,<br>13-16<br>11,12 |

[X] Further documents are listed in the continuation of box C.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication,where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | WO 97 41654 A (MCLORINAN ANDREW GEORGE ;TSOUKAS GEORGE JAMES (AU); ERICSSON TELEF) 6 November 1997 (1997-11-06) page 2, line 8 -page 5, line 20 page 8 page 10, line 6 -page 12, line 28; figures 1-4 | 1-16 |
| A | US 6 091 959 A (DORENBOSCH JHEROEN PIETER ET AL) 18 July 2000 (2000-07-18) page 1, line 28 -page 2, line 40 column 3, line 24 -column 3, line 35 column 4, line 35 -column 7, line 4 column 7, line 37 -column 7, line 59 column 8, line 10 -column 8, line 14; figures 1-5 | 1-16 |
| A | WO 00 04734 A (ERICSSON INC) 27 January 2000 (2000-01-27) page 2, line 9 -page 2, line 15 page 3, line 9 -page 3, line 25 page 5, line 11 -page 5, line 19 page 6, line 22 -page 7, line 27 page 9, line 4 -page 9, line 16; figures 1-3 | 1-16 |

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Information on patent family members

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---|---|---|
| US 6047327 A | 04-04-2000 | NONE | |
| WO 9741654 A | 06-11-1997 | AU 2375097 A | 19-11-1997 |
| | | WO 9741654 A1 | 06-11-1997 |
| | | EP 0864211 A1 | 16-09-1998 |
| US 6091959 A | 18-07-2000 | AU 5281200 A | 18-12-2000 |
| | | EP 1188156 A1 | 20-03-2002 |
| | | WO 0074015 A1 | 07-12-2000 |
| WO 0004734 A | 27-01-2000 | AU 4858699 A | 07-02-2000 |
| | | GB 2358772 A | 01-08-2001 |
| | | WO 0004734 A1 | 27-01-2000 |