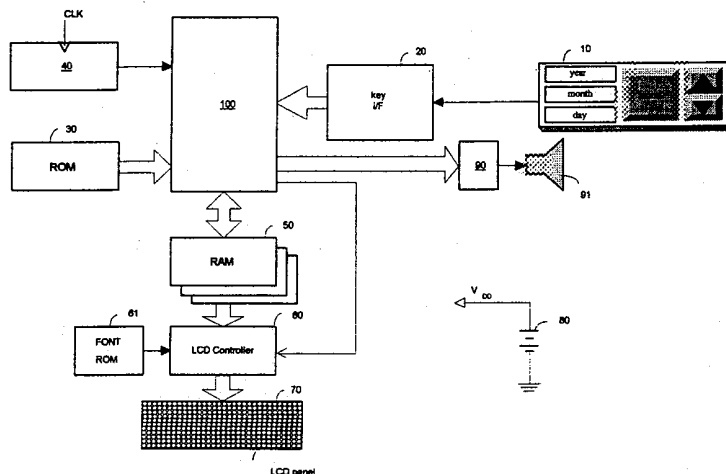




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>7</sup> : <b>G04G 1/00, A61B 10/00</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 99/39252</b></p> <p>(43) International Publication Date: 5 August 1999 (05.08.99)</p>
<p>(21) International Application Number: PCT/KR99/00048</p> <p>(22) International Filing Date: 1 February 1999 (01.02.99)</p> <p>(30) Priority Data: 1998/2838                      2 February 1998 (02.02.98)                      KR</p> <p>(71) Applicant (for all designated States except US): HITOUCH INC. [KR/KR]; 1513, Sungji Heights III 632-6 Yoksam-dong, Kangnam-gu, Seoul 135-080 (KR).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): LEE, Myun, Woo [KR/KR]; 103-20, Sungsan-dong, Mapo-gu, Seoul 121-250 (KR). CHO, Chang, Kyu [KR/KR]; 106-701, Eunhaeng Hansin Apt., Changwoo-dong, Hanam, Kyung-gido 465-120 (KR). KIM, Jae, Young [KR/KR]; 1005-20, Sadang 1-dong, Dongjak-gu 156-091 (KR). HA, Tae, Sin [KR/KR]; 95-356, Shilim 2-dong, Kwanak-gu 151-012 (KR).</p> <p>(74) Agent: PARK, Lae, Bong; 4F TLBS B/D 464-1, Kunja-dong, Kwangjin-gu, Seoul 143-150 (KR).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 29 June 2000 (29.06.00)</p>

(54) Title: AN APPARATUS AND METHOD FOR AUTOMATICALLY DISPLAYING INFORMATION



## (57) Abstract

The present invention provides an apparatus and method which contains a particular date preset by a user and several groups of particular information, each group relating to a pre-specified date difference between the preset date and current date, and automatically displays a group of information corresponding to current date difference. The apparatus according to the present invention comprises a non volatile memory for storing information corresponding to date differences, a timing unit for tracking current time and date, a control unit for calculating the date difference between the preset date and current date and reading out information depending upon the date difference from the memory, a ROM storing an execution program, a font ROM storing display fonts, a LCD control unit, a LCD panel, an audio signal generation unit, and a beeper. The apparatus and method according to the present invention help people who need a good deal of information but have difficulty obtaining it, such as uncomfortable pregnant women or working women with babies to bring up, obtain necessary information easily when it is necessary, thereby preventing them from missing some important activities or getting in trouble by missing such activities.

**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

<b>AL</b>	Albania	<b>ES</b>	Spain	<b>LS</b>	Lesotho	<b>SI</b>	Slovenia
<b>AM</b>	Armenia	<b>FI</b>	Finland	<b>LT</b>	Lithuania	<b>SK</b>	Slovakia
<b>AT</b>	Austria	<b>FR</b>	France	<b>LU</b>	Luxembourg	<b>SN</b>	Senegal
<b>AU</b>	Australia	<b>GA</b>	Gabon	<b>LV</b>	Latvia	<b>SZ</b>	Swaziland
<b>AZ</b>	Azerbaijan	<b>GB</b>	United Kingdom	<b>MC</b>	Monaco	<b>TD</b>	Chad
<b>BA</b>	Bosnia and Herzegovina	<b>GE</b>	Georgia	<b>MD</b>	Republic of Moldova	<b>TG</b>	Togo
<b>BB</b>	Barbados	<b>GH</b>	Ghana	<b>MG</b>	Madagascar	<b>TJ</b>	Tajikistan
<b>BE</b>	Belgium	<b>GN</b>	Guinea	<b>MK</b>	The former Yugoslav Republic of Macedonia	<b>TM</b>	Turkmenistan
<b>BF</b>	Burkina Faso	<b>GR</b>	Greece			<b>TR</b>	Turkey
<b>BG</b>	Bulgaria	<b>HU</b>	Hungary	<b>ML</b>	Mali	<b>TT</b>	Trinidad and Tobago
<b>BJ</b>	Benin	<b>IE</b>	Ireland	<b>MN</b>	Mongolia	<b>UA</b>	Ukraine
<b>BR</b>	Brazil	<b>IL</b>	Israel	<b>MR</b>	Mauritania	<b>UG</b>	Uganda
<b>BY</b>	Belarus	<b>IS</b>	Iceland	<b>MW</b>	Malawi	<b>US</b>	United States of America
<b>CA</b>	Canada	<b>IT</b>	Italy	<b>MX</b>	Mexico	<b>UZ</b>	Uzbekistan
<b>CF</b>	Central African Republic	<b>JP</b>	Japan	<b>NE</b>	Niger	<b>VN</b>	Viet Nam
<b>CG</b>	Congo	<b>KE</b>	Kenya	<b>NL</b>	Netherlands	<b>YU</b>	Yugoslavia
<b>CH</b>	Switzerland	<b>KG</b>	Kyrgyzstan	<b>NO</b>	Norway	<b>ZW</b>	Zimbabwe
<b>CI</b>	Côte d'Ivoire	<b>KP</b>	Democratic People's Republic of Korea	<b>NZ</b>	New Zealand		
<b>CM</b>	Cameroon	<b>KR</b>	Republic of Korea	<b>PL</b>	Poland		
<b>CN</b>	China	<b>KZ</b>	Kazakhstan	<b>PT</b>	Portugal		
<b>CU</b>	Cuba	<b>LC</b>	Saint Lucia	<b>RO</b>	Romania		
<b>CZ</b>	Czech Republic	<b>LI</b>	Liechtenstein	<b>RU</b>	Russian Federation		
<b>DE</b>	Germany	<b>LK</b>	Sri Lanka	<b>SD</b>	Sudan		
<b>DK</b>	Denmark	<b>LR</b>	Liberia	<b>SE</b>	Sweden		
<b>EE</b>	Estonia			<b>SG</b>	Singapore		

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 99/00048

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC <sup>7</sup> : G 04 G 1/00, A 61 B 10/00 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC <sup>7</sup> : A 61 B, G 04 G, G 06 F 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) WPI, PAJ, EPODOC		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5691932 A (REINER et al.) 25 November 1997 (25.11.97) totality.	1,2,5-10
X	GB 2193015 A (RUSTON) 27 January 1988 (27.01.88), totality.	1,3,4,5-10
X	JP 1-250230 A (TOYOKAZU) 05 October 1989 (05.10.89), Patent Abstracts of Japan, Vol. 13, No. 592, 26 December 1989 (26.12.89).  -----	1,3,4,5-10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family 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 application or patent 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		
Date of the actual completion of the international search  28 April 2000 (28.04.00)		Date of mailing of the international search report  05 May 2000 (05.05.00)
Name and mailing address of the ISA/AT Austrian Patent Office Kohlmarkt 8-10; A-1014 Vienna Facsimile No. 1/53424/200		Authorized officer  Schlechter  Telephone No. 1/53424/448

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR99/00048

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	A	5691932	25-11-1997	none		
GB	A1	2193015	27-01-1988	GB	A0 8611371	18-06-1986
JP	A	1250230		none		