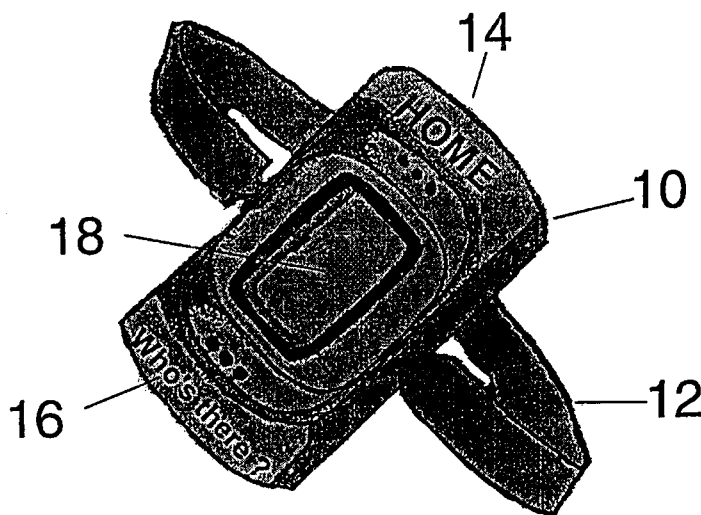




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04M 1/72, 1/66, 1/274</p>	<p>A1</p>	<p>(11) International Publication Number: WO 99/13629 (43) International Publication Date: 18 March 1999 (18.03.99)</p>
<p>(21) International Application Number: PCT/GB98/02715 (22) International Filing Date: 9 September 1998 (09.09.98) (30) Priority Data: 973637 9 September 1997 (09.09.97) FI (71)(72) Applicants and Inventors: WESBY, Philip, Bernard [GB/FI]; Viinirinne 8A, FIN-02630 Espoo (FI). WESBY VAN SWAAY, Eveline [NL/FI]; Viinirinne 8A, FIN-02630 Espoo (FI). PARKKALI, Rauli [FI/FI]; Urheilukatu 18 B 28, FIN-00250 Helsinki (FI). AHNLUND, Hans, Kjell, Olof [SE/FI]; Apollogatan 10 A 36, F-00100 Helsinki (FI). (74) Agent: ROBSON, Aidan, John; Reddie & Grose, 16 Theobalds Road, London WC1X 8PL (GB).</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, GE, GH, GM, HR, HU, ID, IL, 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>Published <i>With international search report. 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>

(54) Title: EMERGENCY MOBILE RADIO TELEPHONE WITH REDUCE KEY SET



(57) Abstract

A mobile radio telephone or portable hot link communicator is described which provides a simple, efficient and effective means of communication to enable a child or elderly person to communicate with a known parent, relative or friend carrying a standard mobile telephone. The hot-link communicator is wrist worn, or hangs from a cord around the wearer's neck, and it comprises a preprogrammed Module that links it with preferably only one other mobile or fixed telephone. The hot link communicator comprises the very basic functionality, and in some embodiments, no display, only a preprogrammed dialling button and an answer button. The hot link communicator makes possible communication between parents needing to communicate with their children and between supervising adults and elderly persons needing assistance in that the children and elderly persons do not need to input numbers in sequence via a key pad or search for a telephone in the rain and dark.

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EMERGENCY MOBILE RADIO TELEPHONE WITH REDUCE KEY SET

DESCRIPTION

BACKGROUND OF THE INVENTION

5 The invention relates to a portable communicating apparatus. More particularly, it relates to a portable communicating hot link apparatus which can provide a simple, efficient and effective means of communication between children and their parents, between elderly persons and caring relatives, and between mentally less-
10 able individuals and supervising adults.

Children often disappear from view from parents causing anxiety and worry until their whereabouts is known again. Mobile telephone technology, such as GSM, DCS, and CDMA can provide an essential link between
15 older children and their parents, but this is not the answer for younger children, elderly persons, or mentally less-able individuals. The mobile telephone is very valuable and might easily be lost or stolen from a child or from a mentally less-able individual.
20 Similarly, elderly citizens may experience distress should they become lost in a crowd or lose sight of a supervising adult. In all these instances, children, mentally less able individuals, and elderly persons would quite likely experience difficulty in pressing the
25 right sequence of keys on the mobile telephone, particularly if it were dark or in instances of bad weather.

Elderly persons often make appointments to meet supervising adults, such as their grown up children, but
30 due to the fast commotion of life, they may miss the particular agreed meeting point or they may forget the time of the meeting. There is clearly a need for a communicating device which can address the communication technology requirements of this situation.

Current mobile phone technology products do not offer a very simple and cheap technology solution which addresses this essential one-to-one communication need.

In addition to these specific communication problem
5 needs, there is a growing concern about the potentially harmful effect of electromagnetic radiation upon the developing brains of young children. Within this context, there is an opportunity to design a communication device for children which positions the
10 radiating electromagnetic field of a communication device away from the close proximity of the brain. In this regard, parents who maintain the belief that mobile telephones present a health risk due to the radiating antenna, may rest secure in the knowledge that this risk
15 can be significantly reduced.

Further to these limitations of existing technologies, and so far as is known, no portable communication apparatus is presently available which serves to offer a hot link communicator comprising the
20 minimum mobile telephone functionality suited to the specific needs of this problem area.

OBJECTS OF THE INVENTION

Accordingly, it is an object of the present invention to provide a novel portable hot link
25 communicating apparatus to meet the minimum specific requirements of parents wishing to have the facility of immediate communication with their children, between mentally less-able individuals and supervising adults, and between elderly persons and caring relatives.

It is a further object of the present invention to provide a novel portable hot link communicating
30 apparatus which comprises a preprogrammed identity module comprising the number of the mobile or fixed telephone to which the hot link communicating device is
35 linked.

It is a further object of the present invention to provide a novel portable hot link communicating apparatus which may comprise no key pad at all, other than a simple array of press pads to initiate a call or
5 to answer an incoming call thereby minimising cost and functionality of the said communication apparatus.

It is a further object of the present invention, to provide a novel portable hot link communicating apparatus which may comprise no display thereby
10 minimising cost and functionality of the said communication apparatus.

It is a further object of the present invention, to provide a novel portable hot link communicating apparatus which comprises a simple and effective way of
15 attaching it to the wearer such as a wrist strap, a hip belt clip, or a neck cord. In this context, it is a further object of the invention to provide a portable hot link communicating apparatus which may function effectively while worn on the wrist such that the
20 electromagnetic field of the radiating antenna is positioned away from the close proximity of the developing brains of young children while a call is in progress.

It is a further object of the present invention, to provide a novel portable hot link communicating
25 apparatus which may be moulded in any of a number of bright colours and designs which are attractive to young children and which are therefore readily worn by said children.

It is a further object of the present invention, to provide a novel portable hot link communicating
30 apparatus which makes use of state of the art battery technology such that the hot link communicating device may be powered by a light-weight, low volume
35 rechargeable battery with sufficient power to remain active for 24 hours.

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