



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁴ : B60R 11/02</p>	<p>A1</p>	<p>(11) International Publication Number: WO 89/ 01429 (43) International Publication Date: 23 February 1989 (23.02.89)</p>
<p>(21) International Application Number: PCT/KR88/00016 (22) International Filing Date: 30 July 1988 (30.07.88) (31) Priority Application Number: 1987/13645 U (32) Priority Date: 14 August 1987 (14.08.87) (33) Priority Country: KR</p> <p>(71)(72) Applicant and Inventor: CHUNG, Uie, Soon [KR/KR]; 2 Dong, 1406 Ho, Keukdong Apt., Oksu-dong, Soungdong-u, Seoul 133-100 (KR).</p> <p>(74) Agent: MOON, Chang, Hoa; Chang-Hoa Moon International Patent & Law, 2Fl. Cambridge Bldg., 825-18 Yoksam 1-dong, Gangnam-Gu, Seoul 135-081 (KR).</p>		<p>(81) Designated States: AT (European patent), BE (European patent), CH (European patent), DE (European patent), FR (European patent), GB (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent), US.</p> <p>Published <i>With international search report.</i></p>
<p>(54) Title: THE HANDLE EQUIPPED A CARPHONE</p> <p>(57) Abstract</p> <p>The handle (1) having a placing groove (2) for a carphone (3) with the transmitter (5) and the receiver (4) which being able to control volume, and connecting a cable (7) which linked to the code wire (9) of the carphone (3) is elongated to front seat (13) for connecting to the socket (12) of the other phone (14).</p> <div style="text-align: right;"> </div>		

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DESCRIPTIONTHE HANDLE EQUIPPED A CARPHONEBACKGROUND OF THE INVENTION

This invention relates to a handle, specifically,
5 the handle equipped a carphone in the center of it.

BACKGROUND - REFERENCE TO RELATED APPLICATION

Heretofore, since a carphone used to located between
the front seats in the past; it caused inconvenience and
danger in calling or in receiving, what makes driver worse;
10 calling with one hand and driving with the other hand.

In order to improve the objections and advantages from
the carphone used in the past, this invention is equipped
the instullation horm in the center of the handle, amplify
the receiver and the transmitter in the phone, ON/OFF switch
15 is able to be operated by the vehicle key, for the reason
the driver can drive without turning the face and to protect
robbing and using the phone by the other people.

Further objections and advantages of the invention will become apparent from a consideration of drawings and ensuing description of it.

DESCRIPTION OF DRAWINGS

5 Fig. 1 is an exploded view of this invention.

Fig. 2 is an embodiment perspective view of this invention.

DESCRIPTION OF INVENTION

Fig. 1 shows an exploded view according to the embodiment of the invention. In the center of the handle 1 has
10 a placing groove 2 for a carphone 3 with the transmitter 5 and the receiver 4 which being able to control with volume switch 6 and connected with a cable 7, the cable 7 is linked to the battery switching wire 8 and to the code wire 9, is connected to the terminal 11 of the keybox 10, the code wire
15 9 of the transmitter 5 and the receiver 4 is elonged to between the front seats 13 and the said wire is connected to the socket 12 of the phone 14.

Above construction of this invention, when the engine

is "ON" state, the battery of the carphone 3 will be "ON" state along with the transmitter 5 and the receiver 4 due to the connection of the battery switching wire 8 linked to the terminal 11.

5 Simultaneously, the person in the back seat also able to use the other phone 14, if necessary, as the code wire 9 connected to the socket 12 which is "ON" state too.

When the carphone 3 is attached to the handle 1, the cable 7 putting through the horn 16 of the placing groove 2, 10 linked the battery switching wire 8 to the keybox terminal 11 in the handle 1, the code wire 9 can be enlonged between the front seats 13 or in suitable location of the vehicle.

After the carphone 3 is set up in the placing groove 2 and covered the lid 17, the cover lid 17 and the carphone 3 15 are fixed firmly to the handle 1 in order that the carphone 3 doesn't break away from the handle 1 while driving.

This invention can control volume of the transmitter 5 and receiver 4 by the volume switch 6, control the phone 14 by the switch of the carphone 3.

20 Since the carphone 3 can not be operated without vehicle key 15, this invention protects the carphone 3 from

the robbing or from using without permission.

This invention has also an advantage of reduce from danger of beginner as the carphone 3 is able to control with the hands while driving.

- 5 Specifically, another advantage is unable to take the carphone 3 out from the handle 1 easily because of the four concave 20 in the surface of the carphone 3 are putting together with the four projecting parts 19 inside of the placing groove 2 at momentally.

C L A I M

We claim:

1. The handle equipped a carphone 3 comprising:
 - a. In the center of the handle 1 has a placing groove
2 for a carphone 3 with the transmitter 5 and the
5 receiver 4 which being able to control by the volume
switch 6.
 - b. The cable linking to the code wire 9 which connected to the socket 12 of the other phone 14.
- 10 2. The handle 1 equipped a carphone 3 of claim 1 wherein said ON/OFF controller 18 of the carphone 3 is contains operating by the vehicle key 15 due to connecting the battery switching wire 8 of the carphone 3 in the handle to the terminal 11 of the keybox 10.
- 15 3. The handle 1 equipped the carphone 3 of claim 1 wherein said the other phone 14 the code wire 9 of the transmitter 5 and the receiver 4 is enlonged to between the front seats 13 and the code wire 9 is connected to the socket 12 of the phone 14.

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Fig 1

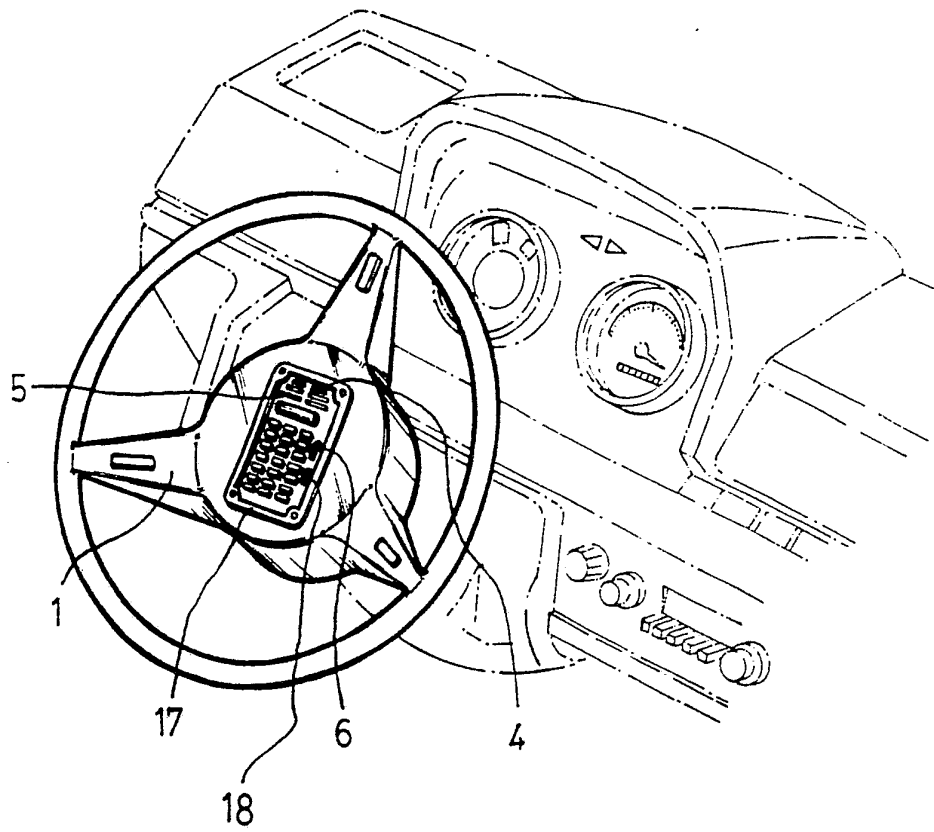
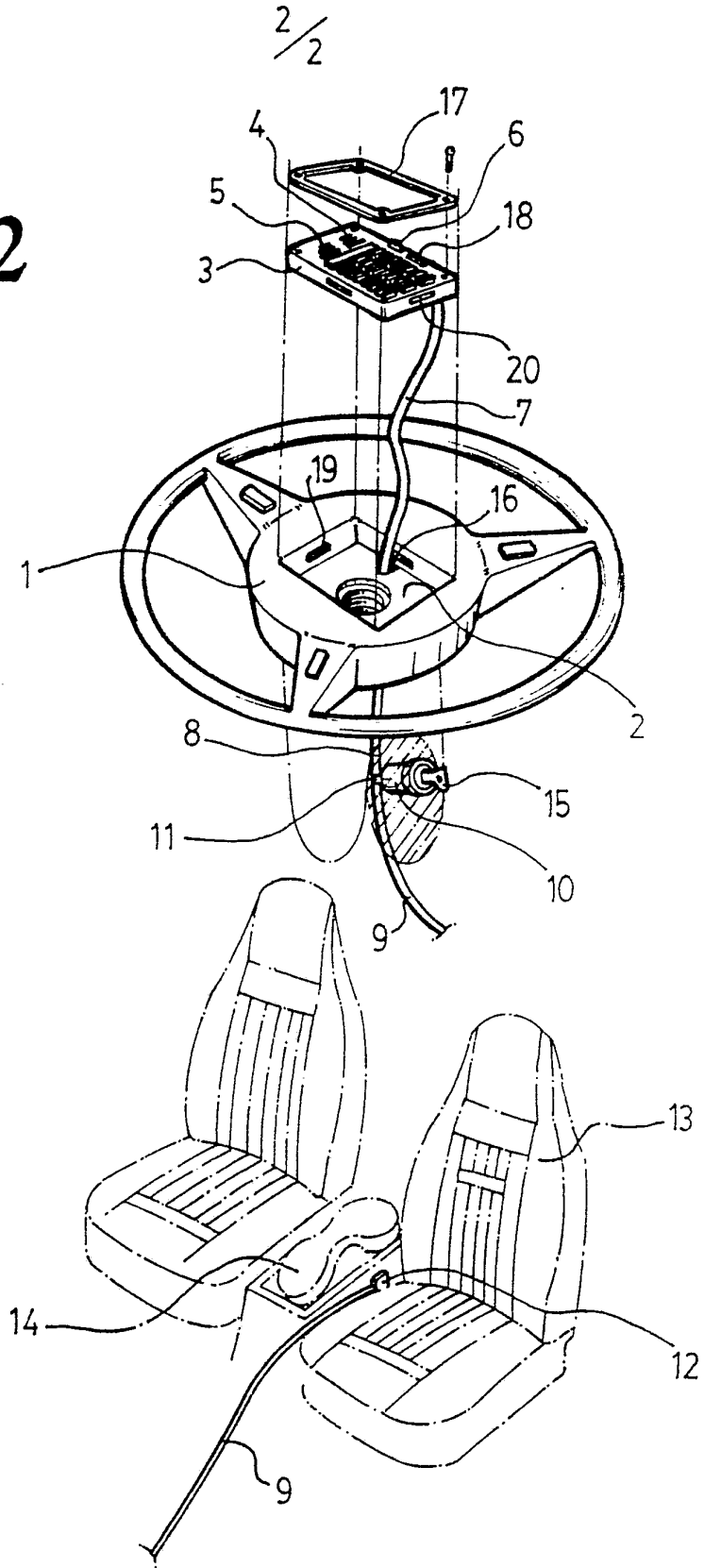



Fig 2



INTERNATIONAL SEARCH REPORT

International Application No PCT/KR 88/00016

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶				
According to International Patent Classification (IPC) or to both National Classification and IPC				
IPC ⁴ : B 60 R 11/02				
II. FIELDS SEARCHED				
Minimum Documentation Searched ⁷				
Classification System	Classification Symbols			
Int.Cl. ⁴	B 60 R 11/00,11/02			
Documentation Searched other than Minimum Documentation to the Extent that such Documents are included in the Fields Searched ⁸				
III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹				
Category ⁹	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³		
X	GB, A, 2 111 800 (AISIN SEIKI KK) 06 July 1983 (06.07.83), see fig. 1a,1b.	(1)		
A	DE, A1, 3 534 362 (AISIN SEIKI KK) 17 April 1986 (17.04.86), see fig. 1,2a,2b,2c.	(1,2,3)		

<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <ul style="list-style-type: none"> ¹⁰ 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 </td> <td style="width: 50%; border: none; vertical-align: top;"> <ul style="list-style-type: none"> "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 "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. "G" document member of the same patent family </td> </tr> </table>			<ul style="list-style-type: none"> ¹⁰ 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 	<ul style="list-style-type: none"> "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 "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. "G" document member of the same patent family
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IV. CERTIFICATION				
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report			
20 October 1988 (20.10.88)	27 October 1988 (27.10.88)			
International Searching Authority	Signature of Authorized Officer			
AUSTRIAN PATENT OFFICE				

Anhang zum internationalen Recherchenbericht über die internationale Patentanmeldung
Nr.

In diesem Anhang sind die Mitglieder der Patentfamilien der im obengenannten internationalen Recherchenbericht angeführten Patentdokumente angegeben. Diese Angaben dienen nur zur Unterrichtung und erfolgen ohne Gewähr.

Annex to the International Search Report on International Patent Application
No. PCT/KR 88/00016

This Annex lists the patent family members relating to the patent documents cited in the above-mentioned International search report. The Austrian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Annexe au rapport de recherche internationale relatif à la demande de brevet international n°.

La présente annexe indique les membres de la famille de brevets relatifs aux documents de brevets cités dans le rapport de recherche internationale visé ci-dessus. Les renseignements fournis sont donnés à titre indicatif et n'engagent pas la responsabilité de l'Office autrichien des brevets.

Im Recherchenbericht angeführtes Patentdokument Patent document cited in search report Document de brevet cité dans le rapport de recherche	Datum der Veröffentlichung Publication date Date de publication	Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets	Datum der Veröffentlichung Publication date Date de publication
GB-A -2 111 800 -B2-	06/07/1983	DE-A1- 3 242 380	01/06/1983
	07/08/1985	DE-C2- 3 242 380	19/12/1985
		JP-A2-58-090 836	30/05/1983
		US-A - 4 455 454	19/06/1984
DE-A1-3 534 362	17/04/1986	JP-A2-61-081 841	25/04/1986
		US-A - 4 698 838	06/10/1987
		JP-A2-61-084 145	28/04/1986
		JP-A2-61-029 070	08/02/1986
		JP-A2-61-028 108	07/02/1986
		JP-A2-61-026 830	06/02/1986