

Description

BACKGROUND OF THE INVENTION

The present invention relates to the structure of a telephone set and, more particularly, to the structure of a radiotelephone which is installed in a vehicle cabin or like confinement.

A telephone for use in a vehicle is usually made up of a handset unit and a base unit which is physically separate from the handset unit. The base unit adapted to support the handset unit is provided with a volume control knob, a power switch and others on one of opposite side faces thereof, and a loudspeaker at the other side face. This kind of telephone applied to a vehicle is generally positioned at left of the driver's seat if the driver's seat is mounted at the right-hand side of the vehicle and at right of the driver's seat if it is mounted at the left-hand side, so that only one of the opposite side faces of the base unit opposes a person who is seated in the driver's seat. Hence, arranging the manipulable section inclusive of the volume control knob and power switch on, for example, the right face of the base unit is desirable from easy access standpoint for a vehicle of one type having a driver's seat at right but undesirable for a vehicle of the other type having a driver's seat at left, while arranging them on the left face of the base unit is desirable for the latter type of vehicle but undesirable for the former type of vehicle.

Meanwhile, a current trend in the art of vehicle-mounted telephones which has evolved from the decrease in equipment size is toward their applications in both inside and outside of a vehicle cabin. However, a telephone provided with a structure which matches with such a trend has not been realized yet.

SUMMARY OF THE INVENTION

It is therefore an object of the present invention to provide a telephone set structure having a base unit which is applicable to a vehicle with no regard to the position of a driver's seat by means of a single handset support member.

It is another object of the present invention to provide a telephone set structure which includes a member whose side face provided with a manipulable section and side face provided with a non-manipulable section are invertible in position substantially without changing the configuration of a base unit.

It is another object of the present invention to provide a telephone set structure which may be used inside or outside of a vehicle cabin as desired and is easy to switch its configuration for inside

use and outside use.

In one embodiment of the present invention a telephone set comprises a handset having a transmitter and a receiver, a base for fixing the handset in place and accommodating circuits which are electrically interconnected to the transmitter and receiver of the handset, and a mounting member for mounting a manipulable section on one of opposite side faces thereof and a non-manipulable section on the other side face, the mounting member being constructed to be inserted into the base in such a manner that the opposite side faces are invertible to replace each other.

BRIEF DESCRIPTION OF THE DRAWINGS

The other objects, features and advantages of the present invention will become more apparent from the following description taken with the accompanying drawings in which:

Fig. 1 is a perspective view of a telephone set to which the present invention is applied;

Fig. 2 is an exploded perspective view of the telephone set shown in Fig. 1;

Fig. 3 is a section along line A-A' of Fig. 2;

Fig. 4 is a plane view of a mounting member which is engaged with a casing of a base;

Fig. 5 is an exploded perspective view of the telephone set in accordance with the present invention which is operatively connected with a radio equipment; and

Figs. 6-9 are perspective views showing various conditions in which the telephone set in accordance with the present invention may be used in combination with the radio equipment.

DETAILED DESCRIPTION OF THE INVENTION

Referring to Fig. 1 of the drawings, a telephone set to which the present invention is applied is shown and includes a handset 1 and a base or handset support 100. The handset 1 comprises a microphone or transmitter and a receiver therein and is provided with dial buttons 2, a display 3 and others. The base 100 includes a coupling section 6 for fixing the handset 1 in place, a mounting member 5 which mounts thereon a power switch, a loudspeaker and others, and a casing 4 for accommodating the mounting member 5 and a circuit board on which necessary circuits are loaded. The mounting member 5, as will be described later in detail, has a manipulable section arranged one side face thereof and provided with a volume control knob, a power switch and others, and a non-manipulable section arranged on the other side face and provided with a speaker grill and others. The

member 5 is engageable with the casing 4 in such a manner that those opposite side faces are invertible in position to replace each other. The handset coupling section 6 is fastened to the casing 4 by screws or like fastening means and functions to fix the handset 1 in place. Electronic circuits built in the handset 1 are electrically connected by a curly cord 7 to those which are installed in the casing 4.

Referring to Fig. 2, the handset coupling section 6 includes lugs 601 and 602 adapted to lock the handset 1 in position. The lug 602 is operatively connected with a push-button 604 such that it unlocks the handset 1 when the push-button 604 is depressed. Another lug 603 is spring-biased to serve the function of raising the handset 1 when the latter is released from the lug 602, so that the operator may easily hold the handset 1 for communication. The coupling section 6 is locked by a projection 402 extending from the casing 4 and fixed to the casing 4 by means of a screw (not shown) which is driven into a threaded hole 401.

The mounting member 5 is provided with a power switch 501 and a volume control knob 502 on one side face and a speaker grill 504 (see Fig. 3) on the other side face. As shown in Fig. 3, a loudspeaker 503 is mounted to the member 5 in an inclined position so as to minimize the dead space. Returning to Fig. 2, recesses 505 extend respectively at the four corners of the mounting member 5 to receive four lugs 405 which extend on the casing 4. The recesses 505 share the same configuration and dimensions, and so do the projections 405. Further, the opposite side faces of the mounting member 5 share the same length. With such a structure, the member 5 may be inserted into the casing 4 with the both side faces held in an invertible positional relationship. That is, the position of the manipulable section inclusive of the power switch 501 and volume control knob 502 and that of the non-manipulable section inclusive of the speaker grill 504 can be replaced merely by inverting the lateral orientation of the mounting member 5 relative to the casing 4.

The casing 4 has a capacity great enough to accommodate not only the mounting member 5 but also a circuit board 403 which is loaded with electronic circuits (not shown). The casing 4 is notched to have a pair of recesses 404 for receiving the push-buttons 604 of the coupling section 6.

As shown in Fig. 4, the mounting member 5 is provided with a symmetrical configuration with respect to the casing 4. The four interengaging portions (405, 505) are identical with each other and, therefore, inverting the member 5 in the right-and-left direction is no problem. It follows that the telephone set shown and described is readily applicable to a vehicle regardless of the position of the driver's seat, that is, merely by inverting

mounting member 5 to match it to a particular position of the driver's seat. The manipulable section inclusive of the power switch 501 may be located in a position which is easy for the main user of the telephone to make access.

How the handset 1 and base 100 may be used in practice will be described hereinafter.

Referring to Fig. 5, a telephone, generally 31, is made up of the handset 1 and the base 100 which is provided with a connector 35 at its bottom for electrical connection. A radio equipment body 37 capable of processing signals which are transmitted and received through an antenna 36 or 54 is provided with a connector 38 on one surface thereof for connection with the connector 35, and engaging portions 39 detachably engageable with the base 100. Positioned on the bottom 40 of the radio equipment body 37 are a connector 41 for connection with a power source and a connector 42 for connection with the antenna. A lug 44 extends from each of two opposing surfaces of the radio equipment body 37 to be engageable with a handle 43. Further a lug 46 extends from one of the surfaces of the radio equipment body 37 to be engageable with a base portion of the antenna 36.

The radio equipment body 37 is fixed to a vehicle body or the like by means of a holder 47 which includes engaging portions 48a for removably retaining the equipment body 37, a connector 49 for making contact with the connector 41, and a connector 50 for making contact with the connector 42. The connector 49 is connected by a cable 51 to a power source 52 such as a battery adapted to power a vehicle, while the connector 50 is connected by a cable 53 and a relay connector 55 to the antenna 54 which is mounted on a vehicle body, for example.

A protector 56 which functions as will be described is provided with engaging portions 48b which are the same in function as the engaging portions 48a, and a connector 57 for connection with the connector 42. A cable 58 extends out from the connector 57 and carries at its end a connector (or base portion) 45 to which the antenna 36 may be connected. A battery unit 59 has therein a battery and a battery charging circuit to serve as a portable power source. Provided on one surface of the battery unit, or casing, 59 are engaging portions 48c which share the same function with the engaging portions 48a and 48b, a connector 60 for connection with the connector 41, and a connector 61 for connection with the connector 42. Provided on another surface of the battery casing 59 are connectors 62 and 63 for connection with the connector 49 and the connector 50 (or connector 57), respectively.

The radiotelephone having the above construction and arrangement is usable in different configurations.

rations as will be described, depending upon desired conditions of use. Where the radiotelephone is intended for use in a confinement such as a vehicle cabin, the holder 47 is utilized which is fixed to a vehicle body or the like and has the power source cable 51 connecting to the battery 52 and the antenna cable 53 to the antenna 54. Specifically, the radio equipment body 37 is securely mounted to the holder 47 by the engaging portions 48a and this causes their power source connectors and antenna connectors to be interconnected. Then, the base 100 of the telephone set 31 is mounted to the radio equipment body 37 through the engaging portions 39, setting up electric electrical connection between the connectors 35 and 38. In this configuration, the radiotelephone may be operated in a vehicle cabin or like confinement.

To use the radiotelephone outside the confinement such as while carrying it, the radio equipment 37 in the configuration of Fig. 6 is removed from the engaging portions 48a of the holder 47 and then, as shown in Fig. 7, the battery unit 59 is rigidly connected to the bottom of the radio equipment body 37 by means of the engaging portions 48c. This interconnects the power source connector 41 to the power source connector 60 and the antenna connector 42 to the antenna connector 61. Thereafter, the protector 56 is mounted to the bottom of the casing 59 through the engaging portions 48b, connecting the antenna connector 57 to the antenna connector 61. The handle 43 is then coupled with the lugs 44 of the radio equipment body 37, the antenna 36 is connected to the end of the cable 58, and the base portion 45 of the antenna 36 is engaged with the projection 46.

With the construction and arrangement described above, the telephone can readily be configured for use outside of a confinement or restored to a configuration for use inside of the confinement by manipulating the engaging portions as explained.

Other possible configurations of the radiotelephone in accordance with the present invention are shown in Figs. 8 and 9. In Fig. 8, the battery unit 59 is mounted between the holder 47 and the radio equipment body 37 in order to charge the battery in the battery unit 59 while the telephone set 31 is used. In Fig. 9, the connector of the base 100 and the connector of the radio equipment body 37 are interconnected by an extension cable 64 and a holder 65 so that the telephone set 31 may be used physically separated from the radio equipment body 37. In this case, the telephone set 31 is retained by the holder 65 and the radio equipment body 37 by the holder 47.

In summary, it will be seen that the present invention provides a telephone set structure which allows one to readily and switchingly use a single

telephone inside and outside of a confinement such as a vehicle cabin and, inside the confinement, while charging a portable battery unit or positioning a telephone set and a radio equipment body separately from each other.

Although the invention has been described with reference to particular embodiments, by way of example, it will be appreciated that variations and modifications may be made within the scope of the following claims.

Claims

1. A telephone set structure having a handset (1) provided with a transmitter and a receiver, a base (100) for fixing the handset in place, and a manipulable section (501, 502) and a non-manipulable section (504) which are provided on the base (100), characterized by comprising:

a mounting member (5) provided with the manipulable section (501, 502) on one of opposite side faces thereof and the non-manipulable section (504) on the other side face, said mounting member being constructed to be inserted into the base (100) in such a manner that the orientation of the two side faces is reversible.

2. A telephone set structure as claimed in claim 1, wherein the base (100) comprises a casing (4) having a space for accommodating at least the circuits and the mounting member (5), and a handset coupling section (6) for fixing the handset (1) in place and shaped to cover said casing (4) to which the mounting member (5) has been mounted.

3. A telephone set structure as claimed in claim 2, wherein the mounting member (5) is provided with four vertically extending and identically shaped recesses (505) in one-to-one correspondence at four corners thereof, the casing (4) being provided with lugs (405) which mate respectively with said four recesses (505) of the mounting member (5).

4. A telephone set structure as claimed in claim 2, wherein the handset coupling section (6) comprises a first lug (601) for locking the handset, a second lug (602) for locking the handset (1) and releasing the locking interlocked with a push-button (604), and a spring-biased third lug (603) for urging the handset (1) away from the handset coupling section (6).

rations as will be described, depending upon desired conditions of use. Where the radiotelephone is intended for use in a confinement such as a vehicle cabin, the holder 47 is utilized which is fixed to a vehicle body or the like and has the power source cable 51 connecting to the battery 52 and the antenna cable 53 to the antenna 54. Specifically, the radio equipment body 37 is securely mounted to the holder 47 by the engaging portions 48a and this causes their power source connectors and antenna connectors to be interconnected. Then, the base 100 of the telephone set 31 is mounted to the radio equipment body 37 through the engaging portions 39, setting up electric electrical connection between the connectors 35 and 38. In this configuration, the radiotelephone may be operated in a vehicle cabin or like confinement.

To use the radiotelephone outside the confinement such as while carrying it, the radio equipment 37 in the configuration of Fig. 6 is removed from the engaging portions 48a of the holder 47 and then, as shown in Fig. 7, the battery unit 59 is rigidly connected to the bottom of the radio equipment body 37 by means of the engaging portions 48c. This interconnects the power source connector 41 to the power source connector 60 and the antenna connector 42 to the antenna connector 61. Thereafter, the protector 56 is mounted to the bottom of the casing 59 through the engaging portions 48b, connecting the antenna connector 57 to the antenna connector 61. The handle 43 is then coupled with the lugs 44 of the radio equipment body 37, the antenna 36 is connected to the end of the cable 58, and the base portion 45 of the antenna 36 is engaged with the projection 46.

With the construction and arrangement described above, the telephone can readily be configured for use outside of a confinement or restored to a configuration for use inside of the confinement by manipulating the engaging portions as explained.

Other possible configurations of the radiotelephone in accordance with the present invention are shown in Figs. 8 and 9. In Fig. 8, the battery unit 59 is mounted between the holder 47 and the radio equipment body 37 in order to charge the battery in the battery unit 59 while the telephone set 31 is used. In Fig. 9, the connector of the base 100 and the connector of the radio equipment body 37 are interconnected by an extension cable 64 and a holder 65 so that the telephone set 31 may be used physically separated from the radio equipment body 37. In this case, the telephone set 31 is retained by the holder 65 and the radio equipment body 37 by the holder 47.

In summary, it will be seen that the present invention provides a telephone set structure which allows one to readily and switchingly use a single

telephone inside and outside of a confinement such as a vehicle cabin and, inside the confinement, while charging a portable battery unit or positioning a telephone set and a radio equipment body separately from each other.

Although the invention has been described with reference to particular embodiments, by way of example, it will be appreciated that variations and modifications may be made within the scope of the following claims.

Claims

1. A telephone set structure having a handset (1) provided with a transmitter and a receiver, a base (100) for fixing the handset in place, and a manipulable section (501, 502) and a non-manipulable section (504) which are provided on the base (100), characterized by comprising:
 - a mounting member (5) provided with the manipulable section (501, 502) on one of opposite side faces thereof and the non-manipulable section (504) on the other side face, said mounting member being constructed to be inserted into the base (100) in such a manner that the orientation of the two side faces is reversible.
2. A telephone set structure as claimed in claim 1, wherein the base (100) comprises a casing (4) having a space for accommodating at least the circuits and the mounting member (5), and a handset coupling section (6) for fixing the handset (1) in place and shaped to cover said casing (4) to which the mounting member (5) has been mounted.
3. A telephone set structure as claimed in claim 2, wherein the mounting member (5) is provided with four vertically extending and identically shaped recesses (505) in one-to-one correspondence at four corners thereof, the casing (4) being provided with lugs (405) which mate respectively with said four recesses (505) of the mounting member (5).
4. A telephone set structure as claimed in claim 2, wherein the handset coupling section (6) comprises a first lug (601) for locking the handset, a second lug (602) for locking the handset (1) and releasing the locking interlocked with a push-button (604), and a spring-biased third lug (603) for urging the handset (1) away from the handset coupling section (6).



5. A telephone set structure as claimed in claim 1, wherein the manipulable section comprises a power switch (501) and a volume control knob (502) and the non-manipulable section comprises includes a speaker grill (504).
6. A telephone set structure as claimed in claim 5, further comprising a loudspeaker (503) which is mounted to the mounting member (5) in an inclined position relative to the speaker grill (504).
7. A telephone set structure as claimed in claim 1, further comprising a radio equipment body (37) having a radio equipment associated with the transmitter and receiver of the handset (1), at least one engaging portion (39), and connectors (41, 42), connecting means (39, 35, 38; 64) for connecting said radio equipment body (37) to the base (100), and holding means (47; 56) having at least an engaging portion (48a; 48b) and connectors (49 and 50; 57) which correspond respectively to the engaging portion and the connectors (38, 41, 42) of the radio equipment body (37).
8. A telephone set structure as claimed in claim 7, wherein the connecting means comprises engaging portions (39) and connectors (35, 38) for connection which are provided on the base (100) and the radio equipment body (37) to allow the base (100) and the radio equipment body (37) to be detachably connected to each other.
9. A telephone set structure as claimed in claim 7, wherein the connecting means comprises a relaying cable (64).
10. A telephone set structure as claimed in claim 7, wherein the holding means comprises a holder (47) which is fixedly mounted on a vehicle body and connected to an antenna (54) and a power source (52).
11. A telephone set structure as claimed in claim 7, wherein the radio equipment body (37) comprises engaging means (44) with which a handle (43) for carrying the telephone set is engageable, the holding means comprising a protector (56) to which a power source unit (59) and an antenna (36) are connected.
12. A telephone set structure as claimed in claim 11, wherein the power source unit (59) comprises a chargeable battery and a charging circuit for charging said battery, the protector (56) comprising a connector (57) and a cable

(58) for connecting said connector (57) to said antenna (36).

5 Revendications

1. Structure de poste téléphonique comprenant un combiné (1) comportant un émetteur et un récepteur, une base (100) pour fixer le combiné en place, et une section pouvant être manipulée (501, 502) et une section ne pouvant être manipulée (504) qui sont prévues sur la base (100), caractérisée en ce qu'elle comprend :
- un élément de montage (5) comportant la section pouvant être manipulée (501, 502) sur l'une de ses faces latérales opposées et la section ne pouvant être manipulée (504) sur l'autre face latérale, l'élément de montage étant construit de manière à être inséré dans la base (100) d'une manière telle que l'orientation des deux faces latérales soit réversible.
2. Structure de poste téléphonique selon la revendication 1, dans laquelle la base (100) comprend un boîtier (4) renfermant un espace pour recevoir au moins les circuits et l'élément de montage (5), et une section (6) d'accouplement de combiné pour fixer le combiné (1) en place et façonnée de manière à recouvrir le boîtier (4) sur lequel l'élément de montage (5) a été monté.
3. Structure de poste téléphonique selon la revendication 2, dans laquelle l'élément de montage (5) comporte quatre évidements (505) s'étendant verticalement et de même forme dans une correspondance univoque à ses quatre angles, le boîtier (4) comprenant des pattes (405) qui s'accouplent respectivement aux quatre évidements (505) de l'élément de montage (5).
4. Structure de poste téléphonique selon la revendication 2, dans laquelle la section (6) d'accouplement du combiné comprend une première patte (601) pour bloquer le combiné, une seconde patte (602) pour bloquer le combiné (1) et libérer le blocage combiné à un bouton-poussoir (604), et une troisième patte (603) soumise à l'action d'un ressort pour solliciter le combiné (1) afin de l'éloigner de la section (6) d'accouplement avec le combiné...
5. Structure de poste téléphonique selon la revendication 1, dans laquelle la section pouvant être manipulée comprend un commutateur d'alimentation (501) et un bouton (502) de



contrôle du volume, et la section ne pouvant être manipulée comporte une grille (504) de haut-parleur.

6. Structure de poste téléphonique selon la revendication 5, comprenant en outre un haut-parleur (503) qui est monté sur l'élément de montage (5) dans une position inclinée par rapport à la grille (504) du haut-parleur.
7. Structure de poste téléphonique selon la revendication 1, comprenant en outre un corps (37) d'équipement radio, ayant un équipement radio associé à l'émetteur et au récepteur du combiné (1), au moins une partie d'engagement (39) et des connecteurs (41, 42), des moyens de connexion (39, 35, 38; 64) pour relier le corps (37) de l'équipement radio à la base (100), et un moyen de maintien (47; 56) ayant au moins une partie d'engagement (48a; 48b) et des connecteurs (49 et 50; 57) qui correspondent respectivement à la partie d'engagement et aux connecteurs (48, 41, 42) du corps (37) de l'équipement radio.
8. Structure de poste téléphonique selon la revendication 7, dans laquelle le moyen de connexion comprend des parties d'engagement (39) et des connecteurs (35, 38) pour connexion qui sont prévus sur la base (100) et le corps (37) de l'équipement radio pour permettre à la base (100) et au corps (37) de l'équipement radio d'être connectés l'un à l'autre de manière amovible.
9. Structure de poste téléphonique selon la revendication 7, dans laquelle le moyen de connexion comprend un câble de retransmission (64).
10. Structure de poste téléphonique selon la revendication 7, dans laquelle le moyen de maintien comprend un support (47) qui est fixé sur une caisse de véhicule et connecté à une antenne (54) et à une alimentation (52).
11. Structure de poste téléphonique selon la revendication 7, dans laquelle le corps (37) de l'équipement radio comprend un moyen d'engagement (44) dans lequel une poignée (43) pour transporter le poste téléphonique peut s'engager, le moyen de maintien comprenant un protecteur (56) auquel sont connectés un ensemble d'alimentation (56) et une antenne (36).
12. Structure de poste téléphonique selon la revendication 11, dans laquelle l'ensemble d'alimentation

(59) comprend une batterie rechargeable et un circuit de chargement afin de charger la batterie, le protecteur (56) comportant un connecteur (57) et un câble (58) pour relier le connecteur (57) à l'antenne (36).

Ansprüche

1. Telefonapparataufbau mit einem Handapparat (1), der mit einem Sender und einem Empfänger versehen ist, einer Basis (100) zum Festhalten des Handapparates und einem Bedienfeld (501, 502) und einem Feld (504) ohne Bedienfunktion, die an der Basis (100) vorgesehen sind, gekennzeichnet durch: ein Befestigungselement (5), das auf einer von gegenüberliegenden Seitenflächen das Bedienfeld (501, 502) aufweist und auf der anderen Seitenfläche das Feld (504) ohne Bedienfunktion aufweist, wobei das Befestigungselement so ausgestaltet ist, das es in die Basis (100) in solcher Weise einsetzbar ist, daß die Ausrichtung der zwei Seitenflächen umkehrbar ist.
2. Telefonapparataufbau nach Anspruch 1, wobei die Basis (100) ein Gehäuse (4) aufweist mit einem Hohlraum zum Aufnehmen mindestens der Schaltungen und des Befestigungselementes (5), und ein Handapparatverbindungsabschnitt (6) zum Festhalten des Handapparates (1) und der so geformt ist, daß er das Gehäuse (4) an dem das Befestigungselement (5) befestigt ist, abdeckt.
3. Telefonapparataufbau nach Anspruch 2, wobei das Befestigungselement (5) vier sich senkrecht erstreckende und identisch ausgebildete Ausnehmungen (505) aufweist, wobei jeweils eine an den vier Ecken vorhanden ist, wobei das Gehäuse (4) Ansätze (405) aufweist, die mit dem jeweiligen der vier Ausnehmungen (505) des Befestigungselements (5) übereinstimmen.
4. Telefonapparataufbau nach Anspruch 2, wobei der Handapparatverbindungsabschnitt (6) einen ersten Ansatz (601) zum Verriegeln des Handapparates, einen zweiten Ansatz (602) zum Verriegeln des Handapparates (1) und Lösen der Verriegelung, der mit einem Druckknopf (604) ineinandergreift, und einen durch eine Feder vorgespannten dritten Ansatz (603) aufweist zum Wegdrücken des Handapparates (1) von dem Handapparatverbindungsabschnitt (6).



5. Telefonapparataufbau nach Anspruch 1, wobei das Bedienfeld einen Leistungsschalter (501) und einen Lautstärkeregelknopf (502) und das Feld ohne Bedienfunktion einen Lautsprechergrill (504) aufweist. 5
6. Telefonapparataufbau nach Anspruch 5, ferner mit einem Lautsprecher (503), der an dem Befestigungselement (5) ist in einer Schräglage bezogen auf den Lautsprechergrill (504) befestigt ist. 10
7. Telefonapparataufbau nach Anspruch 1, ferner mit einem Rundfunkausstattungskörper (37) mit einer Rundfunkausstattung, die zu dem Sender und Empfänger des Handapparates (1) gehört, mindestens einem Eingriffsabschnitt (39), und Verbindern (41,42), Verbindungseinrichtung (39,35,38;64) zum Verbinden des Radioausstattungskörpers (37) mit der Basis (100) und Halteeinrichtung (47;56) mit mindestens einem Eingriffsabschnitt (48a;48b) und Verbindern (49 und 50;57), die dem jeweiligen Eingriffsabschnitt und den Verbindern (38,41,42) des Radioausstattungskörpers (37) entsprechen. 15
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8. Telefonapparataufbau nach Anspruch 7, wobei die Verbindungseinrichtung Eingriffsabschnitte (39) und Verbinder (35,38) zum Verbinden aufweist, die an der Basis (100) und dem Radioausstattungskörper (37) vorgesehen sind, so daß die Basis (100) und der Radioausstattungskörper (37) lösbar miteinander verbindbar sind. 30
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9. Telefonapparataufbau nach Anspruch 7, wobei die Verbindungseinrichtung ein Verbindungskabel (64) aufweist. 40
10. Telefonapparataufbau nach Anspruch 7, wobei die Halteeinrichtung einen Halter (47) aufweist, der fest an einem Fahrzeugkörper befestigt ist und mit einer Antenne (54) und einer Leistungsquelle (52) verbunden ist. 45
11. Telefonapparataufbau nach Anspruch 7, wobei der Radioausstattungskörper (37) Eingriffseinrichtungen (44) aufweist mit denen ein Handgriff (43) zum Tragen des Telefonapparates in Eingriff bringbar ist, wobei die Halteeinrichtung einen Schutz (56) aufweist, an den eine Leistungsquelleneinheit (59) und eine Antenne (36) angeschlossen sind. 50
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12. Telefonapparataufbau nach Anspruch 11, wobei die Leistungsquelleneinheit (59) eine aufladbare Batterie und eine Ladeschaltung zum

Aufladen der Batterie aufweist, der Schutz (56) einen Verbinder (57) und ein Kabel (58) zum Verbinden des Verbinders (57) mit der Antenne (36) aufweist.

