METHOD, SYSTEM AND CONTROLLER FOR RELEASING TELEPHONE TRANSFER SETTING, AND RECORDING MEDIUM

Publication number: JP2001197210 (A)
Publication date: 2001-07-19
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Classification:
- European:
Application number: JP20000001336 20000107
Priority number(s): JP20000001336 20000107

Abstract of JP 2001197210 (A)
PROBLEM TO BE SOLVED: To provide a method and a system for automatically performing the transfer setting and transfer releasing of a telephone call. SOLUTION: These method and system always monitor the position of a mobile telephone set, grasp the present position of the telephone user on the basis of the positional information, on top of that, automatically set telephone transfer to a mobile telephone set or an automatic answering telephone system desired by the telephone user when the telephone user is not around the mobile telephone, automatically transfer incoming telephone calls to the mobile telephone set or the automatic answering telephone system during the time and meanwhile, automatically release the telephone transfer when the telephone user returns around to the mobile telephone.
Family list
1 application(s) for: JP2001197210 (A)

1 METHOD, SYSTEM AND CONTROLLER FOR RELEASING
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(54) 【発明の名称】 電話転送設定解除方法、システム、制御装置及び記録媒体

(57) 【要約】
【課題】 電話の転送設定及び転送解除を自動的に行う方法及びシステムを提供する。
【解決手段】 移動電話機の位置を常時監視し、その位置情報に基づいて電話利用者の現在位置を把握し、その上で、電話利用者が自席にいない時は自動的に電話利用者が望む移動電話機又は留守番電話装置への電話転送を設定し、その間の着信電話をその移動電話機又は留守番電話装置に自動的に転送し、一方、電話利用者が自席に戻った時は電話転送を自動的に解除する。
【許諾請求の範囲】
【請求項１】利用者自席に固定電話機を設置し、利用者が離席時は移動電話機を携帯し、移動電話機の位置を常時監視し、移動電話機が自席から離れている時には電話転送を設定し、電話転送設定中に固定電話機に電話が着信した場合は、着信した電話を電話機に転送し、移動電話機が自席に戻った時に電話転送を解除することを特徴とする電話転送設定解除方法。

【請求項２】利用者自席に固定電話機を設置し、利用者が離席時は移動電話機を携帯し、移動電話機の位置を常時監視し、移動電話機が自席から離れている時には電話転送を設定し、電話転送設定中に固定電話機に電話が着信した場合は、着信した電話を留守番電話装置に転送し、移動電話機が自席に戻った時に電話転送を解除することを特徴とする電話転送設定解除方法。

【請求項３】利用者自席に固定電話機を設置し、利用者が離席時は移動電話機を携帯し、移動電話機の位置を常時監視し、移動電話機が自席から離れている時には電話転送を設定し、電話転送設定中に固定電話機に電話が着信した場合は、着信した電話を留守番電話装置に転送し、移動電話機が自席に戻った時に電話転送を解除することを特徴とする電話転送設定解除方法。

【請求項４】移動電話網内に設けられた移動電話機位置監視装置。

【発明の詳細な説明】
【発明の分野】本発明は、電話利用者の位置情報を利用して電話の転送設定及び転送解除を自動的に行う方法及びシステムに関するものである。

【従来の技術】従来、電話利用者が自席を離れる際に、留守番電話に電話が留守番電話装置に転送されるようにするためには、電話番号に電話をかけ、着信の操作を行う必要があった。更に、この転送設定及び転送解除の操作が複雑であるという問題があり、このため、これらの操作をする場合が多いため、電話の発信者が迷惑を受けることが多いという課題があった。

【発明の解決しようとする課題】本発明の目的は、上記の問題を解決し、電話の転送設定及び転送解除の操作を容易にするため、電話機にランプを付加して電話機の状態を視覚的に表示する機能を用いるもので、この機能を用いることで、電話の転送設定及び転送解除のための複雑な操作を利用者が行わなければならないという問題は解決されない。

【発明の解決しようとする手段】本発明の電話転送設定解除方法は、電話の自己の電話機を設定し、利用者が離席時は移動電話機を携帯し、移動電話機の位置を常時監視し、利用者が離席している時には電話転送を設定し、電話転送設定中に固定電話機に電話が着信した場合は、着信した電話を移動電話機に転送し、移動電話機が自席に戻った時に電話転送を解除することを特徴とする。

【発明の効果】本発明の他の電話転送設定解除方法は、利用者が自席に固定電話機を設置し、利用者が離席している時は移動電話機を携帯し、移動電話機の位置を常時監視し、移動電話機が自席から離れている時には電話転送を設定し、電話転送設定中に固定電話機に電話が着信した
場合は、着信した電話を留守番電話装置に転送し、移動電話機が自席に戻った時に電話転送を解除することを特徴とする。

【0007】また、本発明の第4の電話転送設定解除方法は、利用者の自席に固定電話機を設置し、利用者が離席時は移動電話機を携帯し、移動電話機の位置を常時監視し、移動電話機自席から離れている時には電話転送を設定し、電話転送設定時に固定電話機に電話が着信した場合は、着信した電話が予め設定された電話番号から電話できる時は移動電話機に転送し、着信した電話が予め設定された電話番号以外の電話は防ぐために電話転送を解除することを特徴とする。

【0008】また、本発明の電話転送設定解除システムは、移動電話機内蔵した電話転送設定解除装置、複数の固定電話機を設定できるスイッチ、移動電話機の設定位置、不在時の転送先及び現在の転送設定状態を記録する記憶装置、及び、移動電話機が設定位置にある場合は着信した電話を固定電話に接続し、移動電話機が設定位置以外の位置にある場合は着信した電話を移動電話機又は留守番電話装置に転送するようにスイッチを制御する制御装置を見なせることを特徴とする。

【0009】更に、本発明の電話転送設定解除システムの制御装置は、所定の时刻に移動電話機内の移動電話機位置監視装置から各利用者の移動電話機の位置情報を取得し、得られた各移動電話機の位置情報及び記憶装置中に格納されている各利用者の設定位置とを比較し、両者が同一の場合は転送設定をリセットし、両者が異なる場合は転送設定を行い、固定電話機が電話を着信した場合、当該固定電話機の転送設定状態に基づいてスイッチを制御し、当該移動電話機又は固定電話機装置に接続する構成を変更することを特徴とする。

【0100】上記の発明によれば、携帯電話の位置を自動的に監視し、その位置情報を基に電話転送のしかたを自動的に選定し、一方、電話利用者が自席に戻った時は電話転送を自動的に解除する。このような本発明により、電話の転送設定及び転送解除を自動的に行うことができる。

【0101】上記の発明の電話転送設定解除システムの制御装置は、コンピュータプログラムによって動作するようにすることができる。従って、本発明のコンピュータプログラムを記録した記憶装置体は、所定の时刻に移動電話機内の移動電話機位置監視装置から各利用者の移動電話機の位置情報を取得するステップ及び、各利用者の音聴器位置とを比較するステップ及び、利用者が同一の場合に転送設定をリセットするステップ及び、比較の結果、両者が異なる場合に転送設定を行うステップ及び、固定電話機に電話が着信した場合に当該固定電話機の転送設定状態に基づいてスイッチを制御し、当該固定電話機及び移動電話機又は留守番電話装置に接続するステップ及び、制御装置を実行するコンピュータプログラムを記録したものを特徴とする。
明する。制御装置36は、各時刻t0、t1、t2、t3の移動電話機の電話番号01、02、03を各制御装置30内に位置情報センターに送信し、そのデータベースから各制御電話機の位置情報を取り得（ステップ51）、得られた各移動電話機の位置情報を、記憶装置38中の現在位置情報テーブルの「移動電話機の位置情報」領域内の各時刻t0、t1、t2、t3に格納する（ステップ52）。同時に、制御装置36は、各時刻t0、t1、t2、t3に格納された各移動電話機の位置情報を、管理変更テーブル中の管理テーブルに格納されている各ユーザA、B、C、Dの定常位置とを比較する（ステップ53）。

【0016】比較の結果、両者が一致の場合は、利用者と在席中の判断し、転送設定をセットするため、管理テーブルの「現在の転送設定状態」の項に「異」を書き込む（ステップ54）。一方、比較の結果、両者が一致しない場合は、利用者が在席中と判断し、転送設定を行うため、管理テーブルの「現在の転送設定状態」の項に「異」を書き込む（ステップ55）。これにより、オフィス34の電話利用者の位置を判断する。

【0017】次に、制御装置36による電話転送の動作を、図6のフローチャートを用いて説明する。固定電話機32に利用者A宛の電話が着信した場合（ステップ51）、制御装置36は、記憶装置38中の管理テーブルにおける利用者Aの「現在の転送設定状態」を取得し、他のユーザBの在席中の判断を行（ステップ52）。よって、現在の転送設定状態が「異」の場合は、利用者が在席中に判断し、制御装置36は、そのままで保持して電話機33を呼出す（ステップ53）。現在の転送設定状態が「異」の場合は、利用者が在席中に判断し、制御装置36は、スイッチを制御して電話番号8011の移動電話機33を呼出す（ステップ54）。利用者Aの「現在の転送設定状態」が「異」の場合は、利用者が在席中に判断し、制御装置36は、そのままで保持して電話機33を呼出す（ステップ55）。

【0018】「現在の転送設定状態」が「異」の場合は、利用者が在席中に判断し、制御装置36は、先ず、発信者番号番号と記憶装置37中の管理テーブルにおける利用者Aの「現在の転送設定状態」を取得し、他のユーザBの在席中の判断を行い、制御装置36は、スイッチを制御して電話番号8011の移動電話機33を呼出す（ステップ56）。この比較の結果、両者が一致した場合は、制御装置36は、スイッチを制御して着信した電話を利用者Aの移動電話機33に転送する（ステップ56）。この比較の結果、両者が一致しない場合は、制御装置36は、スイッチを制御して着信した電話を利用者Aの移動電話機33に転送する（ステップ56）。その結果、利用者Aの電話番号8011の電話が利用者Bの電話番号8012の電話機に転送される（ステップ57）。なお、「現在の転送設定状態」が「異」の場合は、利用者が在席中に判断し、制御装置36は、スイッチを制御して電話番号8011の電話機に転送される（ステップ58）。この場合、利用者Aの電話番号8011の電話が利用者Bの電話番号8012の電話機に転送される（ステップ59）。これにより、電話機の電話番号8011の電話が利用者Bの電話番号8012の電話機に転送される（ステップ59）。

【0019】上記の説明では、図6に示した記憶装置38中の現在位置情報テーブルに、時刻t0～t3の間の1
【図1】

【図2】

<table>
<thead>
<tr>
<th>氏名</th>
<th>固定電話機番号</th>
<th>移動電話機番号</th>
<th>定常位置</th>
<th>現在の転送設定</th>
<th>電話番号の転送のデフォルト設定</th>
<th>移動電話機への転送を許可する電話番号</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0001</td>
<td>8001</td>
<td>a</td>
<td>留守番電話</td>
<td>留守番電話</td>
<td>5000</td>
</tr>
<tr>
<td>B</td>
<td>0002</td>
<td>8002</td>
<td>b</td>
<td>無</td>
<td>移動電話機</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>0003</td>
<td>8003</td>
<td>c</td>
<td>移動電話機</td>
<td>移動電話機</td>
<td></td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>
【図3】

<table>
<thead>
<tr>
<th>氏名</th>
<th>移動電話機の電話番号</th>
<th>移動電話機の時刻iにおける位置情報</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>8001</td>
<td>a a x y z x a</td>
</tr>
<tr>
<td>B</td>
<td>8002</td>
<td>b b b b b b</td>
</tr>
<tr>
<td>C</td>
<td>8003</td>
<td>c m n n n n</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>... ... ... ...</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>... ... ... ...</td>
</tr>
</tbody>
</table>

【図4】

開始（時間設定：時刻t0、t1、t2、......）

各利用者A、B、C......の移動電話機の電話番号（8001、8002、8003......）を移動電話機40内の位置情報センサー41に送り、各時間における各利用者の位置情報を取得する。

得られた各移動電話機の位置情報を記憶装置42の該当する位置情報の領域に格納する。

位置情報一致→得られた移動電話機の位置と記憶装置42の移動電話機の設定位置とを比較する。

在席中と判断し、記憶装置43中の現在の転送設定状態領域に「離脱」を記入する。

在席中と判断し、記憶装置43中の離脱時の転送のデフォルト設定領域のデータを記憶装置43中の現在の転送設定状態領域に上書きする。

終了
【図5】

開始 61

電話機32に着信 62

設定状態→移動電話機 64
記憶装置37中の
利用者Aの現在の転送設定状態を判定する。

留守番電話 66

設定状態→無 63

離席中と判断し利用者Aの移動電話機33を呼出す。

電話中と判断し、発信者電話番号と
記憶装置37の移動電話への転述を
許可する発信電話番号を
比較する。 65

不一致 67

着席した電話を利用者Aの移動電話機33に転送する。

終了
Cited document 3 (JP, 2001-197210A)

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CLAIMS

[Claim(s)]
[Claim 1] Install a fixed-line telephone machine in a user seat, and a user carries a mobile phone machine at the time of a leaving chair. When a position of a mobile phone machine is monitored continuously, a mobile phone machine is separated from a seat, telephone transfer is set up and a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out. A telephone transfer reset method canceling telephone transfer when a telephone which received a message is transmitted to a mobile phone machine and a mobile phone machine returns to a seat.
[Claim 2] Install a fixed-line telephone machine in a user seat, and a user carries a mobile phone machine at the time of a leaving chair. When a position of a mobile phone machine is monitored continuously, a mobile phone machine is separated from a seat, telephone transfer is set up and a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out. A telephone transfer reset method canceling telephone transfer when a telephone which received a message is transmitted to an automatic telephone answering set and a mobile phone machine returns to a seat.
[Claim 3] Install a fixed-line telephone machine in a user seat, and a user carries a mobile phone machine at the time of a leaving chair. When a position of a mobile phone machine is monitored continuously, a mobile phone machine is separated from a seat, telephone transfer is set up and a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out. A telephone transfer reset
method canceling telephone transfer when it transmits to an automatic telephone answering set when it is a telephone from other than a telephone number into which it transmitted to a mobile phone machine when a telephone which received a message was a telephone from a telephone number registered beforehand, and a telephone which received a message was registered beforehand, and a mobile phone machine returns to a seat.

[Claim 4] A switch which accommodates a mobile phone machine position monitoring system provided within the net [ mobile phone ] and two or more fixed-line telephone machines, Memory storage which memorizes the destination and the present transfer setting state at the time of a stationary position of a mobile phone machine, and an absence, And a telephone transfer reset system provided with a control device which controls a switch to transmit a mail arrival telephone to a mobile phone machine or an automatic telephone answering set when a mail arrival telephone is connected to a fixed-line telephone machine when a mobile phone machine is in a stationary position, and a mobile phone machine is in positions other than a stationary position.

[Claim 5] Position information on each user’s mobile phone machine is acquired from a mobile phone machine position monitoring system mobile phone within the net at predetermined time, Position information on each obtained mobile phone machine is compared with each user’s stationary position stored in memory storage, Transfer setting is performed when transfer setting is reset when both are the same, and both differ, A control device of a telephone transfer reset system providing composition which controls a switch based on a transfer setting state of the fixed-line telephone machine concerned, and is connected to the fixed-line telephone machine concerned, a mobile phone machine, or an automatic telephone answering set when a telephone receives a message in a fixed-line telephone machine.

[Claim 6] A step which acquires position information on each user’s mobile phone machine from a mobile phone machine position monitoring system mobile phone within the net at predetermined time, A step which compares position information on each obtained mobile phone machine with each user’s stationary position stored in memory storage, A step which resets transfer setting as a result of comparison when both are the same, When a telephone receives a message in a step and a fixed-line telephone machine which perform transfer setting as a result of comparison when both differ, A recording medium recording a computer program which performs a step which controls a switch based on a transfer setting state of the fixed-line telephone machine concerned, and connects with the fixed-line telephone machine concerned, a
mobile phone machine, or an automatic telephone answering set.

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**DETAILED DESCRIPTION**

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the method and system which perform transfer setting of a telephone, and transmission release automatically using a telephone user's position information.

[0002]

[Description of the Prior Art] When a telephone user leaves a seat conventionally, in order to transmit the telephone which receives a message during absence to an automatic telephone answering set, the specific telephone number needed to be telephoned and it needed to set up by performing defined operation. When this transfer setting was canceled, similarly, the specific telephone number needed to be telephoned and defined operation needed to be performed. Thus, there was a problem that the transfer setting of a telephone and operation of transmission re
lease were complicated, for this reason, these operations were neglected in many cases and there was a problem of inconveniencing the addressee of a telephone in many cases.

[0003] He may forget the transfer setting of a telephone, and operation of transmission release. In order to cancel this inconvenience, the method of adding a lamp to telephone and displaying the state of telephone in visible is used, but even if it is a case where this method is adopted, the problem that the user itself has to perform complicated operation for the transfer setting of a telephone and transmission release is not solved.

[0004] [Problem(s) to be Solved by the Invention] The purpose of this invention is to provide the method and system which perform transfer setting of a telephone, and transmission release automatically in view of the above-mentioned problem.

[0005] [Means for Solving the Problem] In order that a telephone transfer reset method of this invention may attain the above-mentioned purpose, a fixed-line telephone machine is installed in a user seat, Carry a mobile machine at the time of a leaving chair, and a user monitors a position of a mobile phone machine continuously, Telephone transfer is canceled, when a mobile phone machine is separated from a seat, telephone transfer is set up, a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out, a telephone which received a message is transmitted to a mobile phone machine and a mobile phone machine returns to a seat.

[0006] Other telephone transfer reset methods of this invention, Instal
l a fixed-line telephone machine in a user seat, and a user carries a mobile phone machine at the time of a leaving chair. Telephone transfer is canceled, when a position of a mobile phone machine is monitored continuously, a mobile phone machine is separated from a seat, telephone transfer is set up, a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out, a telephone which received a message is transmitted to an automatic telephone answering set and a mobile phone machine returns to a seat.

[0007] A telephone transfer reset method of further others of this invention, Install a fixed-line telephone machine in a user seat, and a user carries a mobile phone machine at the time of a leaving chair. When a position of a mobile phone machine is monitored continuously, a mobile phone machine is separated from a seat, telephone transfer is set up and a telephone receives a message in a fixed-line telephone machine during telephone transfer setting out, When it is a telephone from other than a telephone number into which it transmitted to a mobile phone machine when a telephone which received a message was a telephone from a telephone number registered beforehand, and a telephone which received a message was registered beforehand, it transmits to an automatic telephone answering set, and telephone transfer is canceled when a mobile phone machine returns to a seat.

[0008] A telephone transfer reset system of this invention, A switch which accommodates a mobile phone machine position monitoring system provided within the net [mobile phone] and two or more fixed-line telephone machines, Memory storage which memorizes the destination and the present transfer setting state at the time of a stationary position of a mobile phone machine, and an absence, And when a mobile phone machi
ne is in a stationary position, a mail arrival telephone is connected to a fixed-line telephone machine, and it has a control device which controls a switch to transmit a mail arrival telephone to a mobile phone machine or an automatic telephone answering set when a mobile phone machine is in positions other than a stationary position.

[0009] A control device of a telephone transfer reset system of this invention, Position information on each user's mobile phone machine is acquired from a mobile phone machine position monitoring system mobile phone within the net at predetermined time. Position information on each obtained mobile phone machine is compared with each user's stationary position stored in memory storage. When transfer setting was reset when both were the same, transfer setting is performed when both differ, and a telephone receives a message in a fixed-line telephone machine, a switch is controlled based on a transfer setting state of the fixed-line telephone machine concerned, and composition linked to the fixed-line telephone machine concerned, a mobile phone machine, or an automatic telephone answering set is provided.

[0010] According to above-mentioned this invention, monitor a position of a mobile phone machine continuously, grasp a telephone user’s current position based on the position information, and on it, When a telephone user is not in a seat, telephone transfer to a mobile phone machine or an automatic telephone answering set which a telephone user desires automatically is set up, a mail arrival telephone in the meantime is automatically transmitted to the mobile phone machine or automatic telephone answering set, and on the other hand, when a telephone user returns to a seat, telephone transfer is canceled automatically. Such this invention can perform transfer setting of a telephone, and transm
ission release automatically.

[0011]The control device of a telephone transfer reset system of above
mentioned this invention can operate by a computer program. Therefore,
a recording medium which recorded a computer program of this inventi
don. A step which acquires position information on each user's mobile p
hone machine from a mobile phone machine position monitoring system mo
bile phone within the net at predetermined time, A step which compares
position information on each obtained mobile phone machine with each
user's stationary position stored in memory storage, A step which rese
ts transfer setting as a result of comparison when both are the same,
When a telephone receives a message in a step and a fixed-line telephon
ne machine which perform transfer setting as a result of comparison wh
en both differ, A switch was controlled based on a transfer setting st
ate of the fixed-line telephone machine concerned, and a computer prog
ram which performs a step linked to the fixed-line telephone machine c
cerned, a mobile phone machine, or an automatic telephone answering
set was recorded.

[0012]

[Embodiment of the Invention]Next, an embodiment of the invention is d
scribed using a drawing. Drawing 1 is a figure showing the example of
the telephone transfer reset system of this invention. this system --
an addresser's telephone 10, the telephone network 20, and the user A,
B, and C -- the office 30 to which ...... belongs, and the mobile ph
one network 40 are contained. In the office 30. The currency informati
on of the switch 31, the fixed-line telephone machine 32 of an action
addressee, the mobile phone machine 33 of an action addressee, the aut
omatic telephone answering set 34, the PB-signal receiving set 35, the
control device 36 that controls the whole, the memory storage 37 which manages the telephone number of the telephone user in the office 30, and a mobile phone machine. The memory storage 38 to manage is contained. The position information center 41 is included in the mobile phone network 40. The position information center 41 monitors the position of a mobile phone machine continuously, stores those position information in a database, and answers to the inquiry from the control device 36.

[0013] As shown in the memory storage 37 at drawing 2, he is the user A, B, and C..... "Fixed-line telephone machine telephone number", The management table containing a "mobile phone machine telephone number", a "stationary position", the "present transfer setting state", "the default configuration of the transmission at the time of a leaving chair", and "the origination telephone number which permits transmission to a mobile phone machine" is stored. In the management table of drawing 2, for example the user A. Usually, are in the position a of the office 30 and the fixed-line telephone machine 32 of the telephone number 0001 and the mobile phone machine 33 of the telephone number 8001 are used. The default destination when the fixed-line telephone machine 32 has mail arrival at the time of a leaving chair is an answering machine, and transmitting the arrival from the telephone number 5000 to the mobile phone machine 33 as an exception is set up. Although one "the origination telephone number which permits transmission to a mobile phone machine" is accepted and is displayed in this example, of course, two or more telephone numbers are storable.

[0014] Although it is shown in the management table of drawing 2 that the user A is among a leaving chair now, this is read from the currency
information table of the mobile phone machine in the memory storage 38 shown in drawing 3. The currency information table of drawing 3 — the user A, B, and C — "the telephone number of a mobile phone machine" which …… uses, and the user A, B and C — "the position information in the time t of a mobile phone machine" which …… uses being stored, for example, carrying out the leaving chair of the positions other than the position a about the user A is shown. Although the position information at the 10 time of the time t0-t9 is displayed in this example, this is rewritten one by one with the passage of time.

[0015] These control is performed by the control device 36. Detection of the position of the mobile phone machine by this control device 36 and processing of setting out of transmission are explained using the flow chart of drawing 4. The control device 36 to each time t0, t1, and t2 …… The user A, B and C …… the telephone numbers 8001, 8002, and 8002 of a mobile phone machine — it transmitting to the position information center 41 in the mobile phone network 40, and ……. These position information on each mobile phone machine obtained from the database by acquiring the position information on each mobile phone machine (Step 51) is stored in the column of each time of the "position information in time t of mobile phone machine" field of the currency information table in the memory storage 38 (Step 52). Each user A, B, and C by whom the control device 36 is simultaneously stored in the position information on each mobile phone machine obtained by each time t 0, t1, and t2 ……, and the management table in the memory storage 37 …… A stationary position is compared (Step 53).

[0016] When both are the same as a result of comparison, in order that a user may judge it as under presence and may reset transfer setting,
"nothing" is written in the paragraph of the "present transfer setting state" of a management table (Step 54). On the other hand, when both differ as a result of comparison, in order that a user may judge it as the inside of a leaving chair and may perform transfer setting, the data of "default configuration of the transmission at time of leaving chair" field of a management table is overwritten to the "present transfer setting state" field (Step 55). These processings are performed to all telephone users in the office 30.

[0017] Next, operation of the telephone transfer by the control device 36 is explained using the flow chart of drawing 5. To the fixed-line telephone machine 32, when the telephone of addressing receives a message (Step 61), the control device 36 judges the data stored to the user A "present transfer setting condition" field (Step 62). [ of the user A in the management table in the memory storage 37 ] When "the present transfer setting state" is "nothing", a user judges it as under presence, and the control device 36 controls the switch 31 as it is, and calls the fixed-line telephone machine 32 (Step 63). When "the present transfer setting state" is a "mobile phone machine", a user judges it as the inside of a leaving chair, and the control device 36 controls the switch 31 and calls the mobile phone machine 33 of the telephone number 8001 (Step 64).

[0018] When "the present transfer setting state" is an "answering machine", A user judges it as the inside of a leaving chair, and first, the control device 36 searches an addresser telephone number and the user's A "origination telephone number which permits transmission to mobile phone machine" field in the management table in the memory storage 37, and compares both one by one (Step 65). When both are in agreement
as a result of this comparison, the telephone which the control device 36 controlled the switch 31 and received a message is transmitted to the user's A mobile phone machine 33 (Step 66). When both are not in agreement as a result of this comparison, the control device 36 connects to the automatic telephone answering set 34 the telephone which controlled the switch 31 and received a message, and the message from an addresser is recorded (Step 67). Registration of the telephone number to an "origination telephone number which permits transmission to mobile phone machine" field can be performed at any time, when a user transmits a desired telephone number to a specific telephone number with a PB signal.

[0019] Although the position information at the time t0 - 10 time between t9 was shown in the currency information table in the memory storage 38 shown in drawing 3 by the above-mentioned explanation, this shows in order to explain the situation of movement of a mobile phone machine plainly, and it just needs to store the currency information of the mobile phone machine at the 1 time of the newest gathering time t actually. However, when judging with "The mobile phone machine moved" for example, only after change from a stationary position carries out multiple-times continuation and is detected, it is desirable to store the position information on a point at two or more:00. If it is made to judge with "The mobile phone machine moved" only after carrying out multiple-times continuation and being detected, there is an advantage which can avoid the collection error of position information. It may be made to operate the control device of the telephone transfer reset system of above-mentioned this invention by a computer program.

[0020]
[Effect of the Invention] As explained above, according to this invention, since it judges whether an action addressee is presence and transfer setting of a mail arrival telephone and transmission release are automatically performed using the position information on the mobile phone machine which an action addressee owns, the answering machine release failure at the time of returning to the setting-out failure and seat to the answering machine at the time of a leaving chair is lost. Therefore, an impolite thing is lost as the partner that the ringing tone of telephone continues sounding the inside of absent, or the mail arrival telephone under presence is transmitted to an answering machine, and communication comes to be smoothly given to him. The problem of it being also possible to transmit the telephone from a partner expected that a phone call important or urgent as a default even when transmitting the arrival in a leaving chair to an answering machine is made to a mobile phone machine, and missing the tide of telephone reception is avoidable.

[Translation done.]
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y not reflect the original precisely.
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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] It is a figure showing the example of the telephone transfe
r reset system of this invention.
[Drawing 2] It is a figure showing the composition of a management tabl
e.
[Drawing 3] It is a figure showing the composition of a mobile phone ma
chine currency information table.
[Drawing 4] It is a flow chart for explaining detection of the position
of a mobile phone machine, and processing of setting out of transmiss
ion.
[Drawing 5] It is a flow chart for explaining operation of telephone tr
ansfer.

[Description of Notations]
10 An addresser’s telephone
20 Telephone network
30 Office
31 Switch
32 Fixed-line telephone machine
33 Mobile phone machine
34 Automatic telephone answering set
35 PB-signal receiving set
36 Control device
37 and 38 Memory storage
40 Mobile phone network
41 Position information center

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DRAWINGS

[Drawing 1]
### Drawing 2

<table>
<thead>
<tr>
<th>氏名</th>
<th>固定電話機番号</th>
<th>移動電話機番号</th>
<th>定常位置</th>
<th>現在の転送設定状態</th>
<th>無席時の転送のデフォルト設定</th>
<th>移動電話機への転送を許可する発信電話番号</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0001</td>
<td>8001</td>
<td>a</td>
<td>留守番電話</td>
<td>留守番電話</td>
<td>5000</td>
</tr>
<tr>
<td>B</td>
<td>0002</td>
<td>8002</td>
<td>b</td>
<td>無</td>
<td>移動電話機</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>0003</td>
<td>8003</td>
<td>c</td>
<td>移動電話機</td>
<td>移動電話機</td>
<td></td>
</tr>
</tbody>
</table>

### Drawing 3

<table>
<thead>
<tr>
<th>氏名</th>
<th>移動電話機の電話番号</th>
<th>移動電話機の時刻 t における位置情報</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>t0</td>
</tr>
<tr>
<td>A</td>
<td>8001</td>
<td>a</td>
</tr>
<tr>
<td>B</td>
<td>8002</td>
<td>b</td>
</tr>
<tr>
<td>C</td>
<td>8003</td>
<td>c</td>
</tr>
</tbody>
</table>

...
開始（周期起動：起動時刻 t0, t1, t2, ...）

各利用者 A、B、C・・・の移動電話機の電話番号（8001, 8002, 8003・・・）を移動電話網40内の位置情報センター41に送り、各時刻における各利用者の位置情報を取得する。

得られた各移動電話機の位置情報を記憶装置38の該当する位置情報の領域に格納する。

位置情報＝同一

得られた移動電話機の位置と記憶装置37の移動電話機の定常位置とを比較する。

在席中と判断し、記憶装置37中の現在の転送設定状態領域に「無」を書き込む。

離席中と判断し、記憶装置37中の離席時の転送のデフォルト設定領域のデータを記憶装置37中の現在の転送設定状態領域に上書きする。

終了
開始

電話機32に着信

設定状態=移動電話機

設定状態=無

記憶装置37中の利用者Aの現在の転送設定状態を判定する。

離席中と判断し利用者Aの移動電話機33を呼出

在席中と判断し利用者Aの固定電話機32を呼出す。

離席中と判断し、発信者電話番号と記憶装置37の移動電話への転送を許可する発信電話番号を比較する。

着信した電話を利用者Aの移動電話機33に転送する。

着信した電話を留守番電話装置34に接続し、発信者の伝えを録音する。

終了