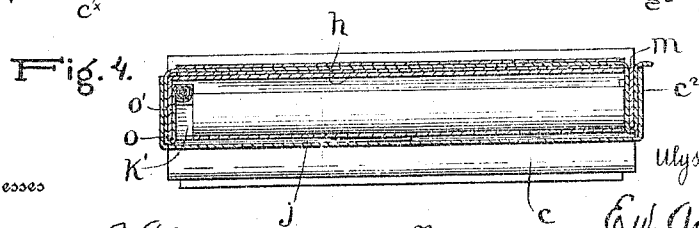
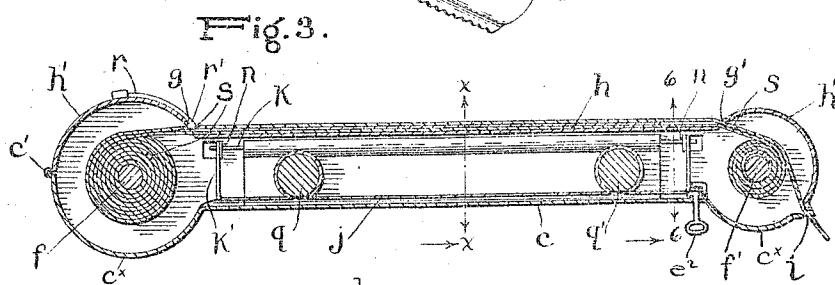
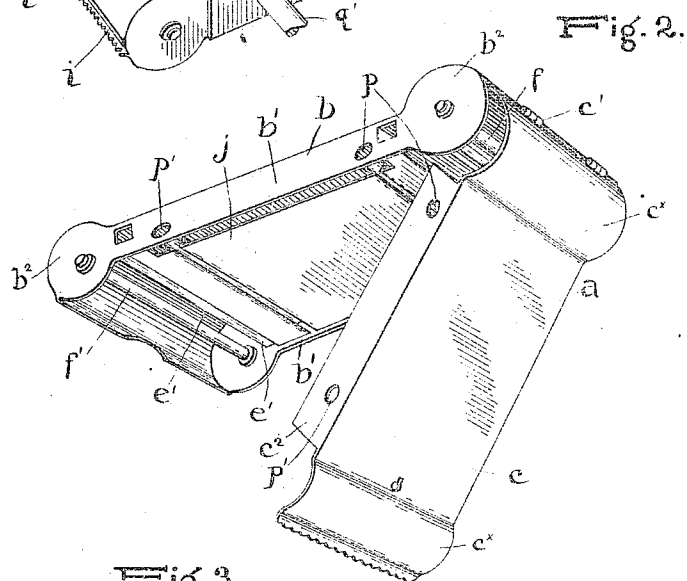
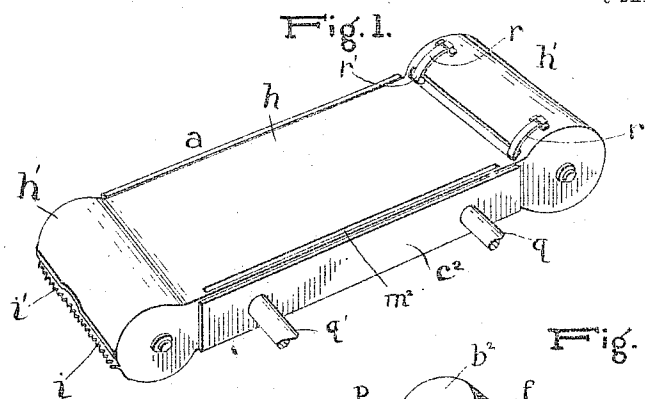


U. G. CAVE.
MEMORANDUM AND RECORDING DEVICE FOR USE WITH TELEPHONES.
APPLICATION FILED JULY 22, 1908.

995,222.

Patented June 13, 1911.

3 SHEETS-SHEET 1.



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3 SHEETS—SHEET 2.

Fig. 5.

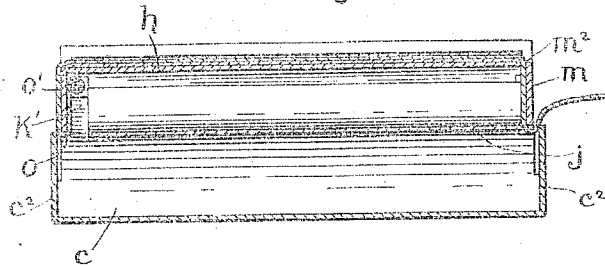


Fig. 8.

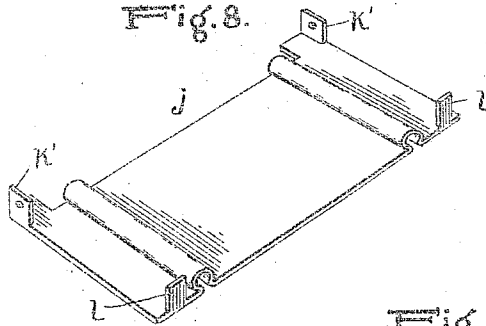


Fig. 6.

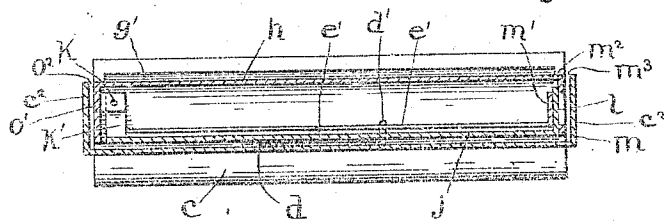
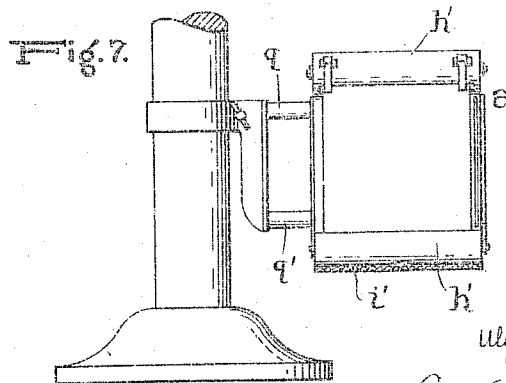


Fig. 7.



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3 SHEETS—SHEET 3.

Fig. 9.

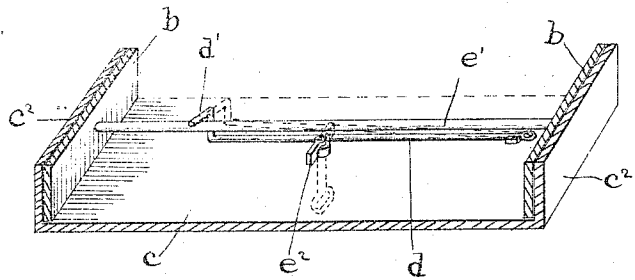


Fig. 10.

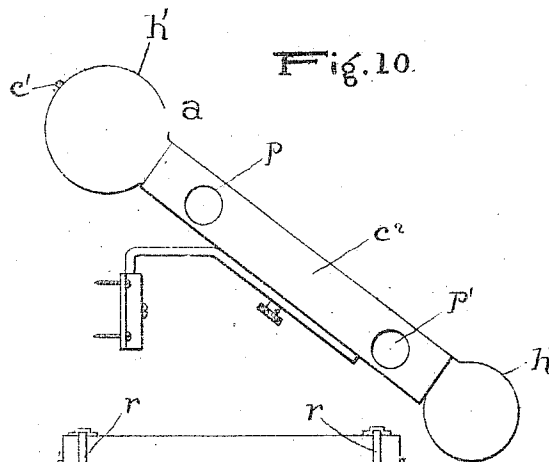
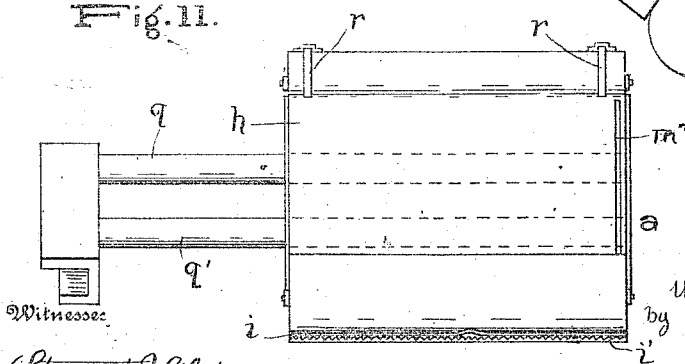


Fig. 11.



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UNITED STATES PATENT OFFICE.

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MEMORANDUM AND RECORDING DEVICE FOR USE WITH TELEPHONES.

995,222.

Specification of Letters Patent. Patented June 13, 1911.

Application filed July 22, 1908. Serial No. 444,783.

To all whom it may concern:

Be it known that I, ULYSSES GRANT CAVE, a citizen of the United States, resident of Louisville, in the county of Jefferson and State of Kentucky, have made a certain new and useful Invention in Memorandum and Recording Devices for Use with Telephones; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the invention, with the rod supports engaged therewith and partially broken away. Fig. 2 is a perspective view of the invention with the hinged bottom shown in dropped position. Fig. 3 is a longitudinal section on the line of the spring strips for regulating the paper feed, and showing the key in position. Fig. 4 is a cross section on the line $x-x$ Fig. 3. Fig. 5 is a similar view with the hinged bottom in dropped position. Fig. 6 is a section on the line 6-6 Fig. 3. Fig. 7 is a front view of the invention as applied to a desk phone. Fig. 8 is a perspective detail view of the inner frame plate. Fig. 9 is a perspective detail view showing the locking devices, the adjacent parts being shown as broken away. Fig. 10 is a side view of the invention as applied for application to a wall phone. Fig. 11 is a front view of the invention as adapted for application to a shelf phone.

The invention relates to memorandum and recording devices for use with telephones, and it consists in the novel construction and combinations of parts as herein-after set forth.

In the accompanying drawings, illustrating the invention, the letter a , designates a supporting and inclosing frame consisting of a body b , having side frame pieces b' , b' , provided with circular end enlargements b^2 , b^2 , an upper platform plate h , having upward extending part-cylindrical end portions h' , h' , overlying said enlargements, and a bottom c , having downward extending part-cylindrical end portions c^x , c^x , underlying said enlargements, and having hinged connection at its rear end at c' , with said

frame, said bottom having a spring strip d , provided with a right angle lug or projection d' , which is capable of springing or snapping home across the top of a transverse bar e' , of the body, to secure the bottom in closed position. A key e^2 , is used to push back the spring strip d , to release the bottom when required.

f , and f' , are the rollers which fit in journal bearings in the end enlargements, being located centrally thereof.

The paper supply roll is wound with two sheets of paper as shown, although three sheets or more may be used if preferred, the end portions thereof passing through transverse slot g , of the body section over the platform plate h , thereof, said end portions passing within the body section again at its forward end through transverse slot g' , the lower sheet being wound around the forward roller f' , for recording purposes and the upper sheet passing through transverse slot i , located between the part-cylindrical end portions at the forward end of the frame. The slots g' , and i , are so located with respect to each other that the memorandum or upper sheet of the paper will have a bend formed therein, whereby when the end portion of this upper sheet is pulled outward a tension or pressure will be exerted thereby upon the forward or recording roller to cause the same to positively rotate and wind the lower recording sheet of paper therearound.

j , is an inner frame plate having transverse hollow cylindrical strengthening ribs extending upward therefrom. The inner frame plate is inserted from below within the body section, the hinged bottom being first dropped to allow of such insertion, when a longitudinal pin k , is engaged with perforations of upward extending lugs k' , k' , of the inner frame plate at one side thereof. Upward extending lugs l , l , of said plate at the opposite side thereof and at right angles to the lugs k' , k' , extend upward between the side portion m , of the body and inward extending lugs m' , struck therefrom. Thus when the inner frame plate is inserted into position within the body and the pin k , passed into position, said plate is secured rigidly in place.

The pin k , which is of roller character having journal bearings n , n , at the ends

thereof, forms a carrying roller for the carbon paper, which passes from said roller at the outside thereof downward and around the lower edge o , of side portion o' , of the body, upward at the outside of said portion o' , transversely across the platform plate between the recording and memorandum sheets, down at the inside of side portion m , of the body through longitudinal slot m^2 , of the platform plate, thence around the lower edge of side portion m , and up at the outside thereof.

The position of the carbon sheet as stated is secured by the upward extending side portions c^2 , c^2 , of the bottom, which lie at the outside of the upward extending portions of the carbon sheet in close relation to the side portions m , and o' , of the body, intervals m^3 , and o^2 , being left between the parts c^2 , c^2 , and m , and o' , for this purpose. These upward extending side portions also serve to close the joint between the hinged bottom and the side frame pieces.

Openings p , p' , are provided in the side portion of the body, and in one upward extending side portion c^2 , of the bottom, said openings being in alinement with each other and with the hollow bracing cylinder extensions of the inner frame plate. Supporting arms q , q' , of transverse character may thus be engaged with said openings and the hollow cylinder extensions, said supporting arms being adapted for clamping engagement at their outer ends with the standard of the desk phone.

In order to regulate the movement or feed of the paper sheets from the supply roll, spring strips r , r , are attached to the rear cylindrical end enlargement of the body and extend at their free lower ends r' , r' , (which are provided with knobs or projections for this purpose) into engagement with a longitudinally extending line of perforations s , of the paper.

The invention may be detached from its supports and carried about by the driver or solicitor for use, or the device may be detached and sent while locked to the central office.

Having described the invention, what I claim and desire to secure by Letters Patent is:

1. In a device of the class described, a body having side frame pieces provided with circular end enlargements, an upper platform plate provided with forward and rear transverse slots and having part-cylindrical end portions overlying said circular enlargements, forward and rear paper rolls having journal bearings in said enlargements, and a hinged bottom having part cylindrical end portions underlying said circular enlargements, the part-cylindrical end portions at the forward end of the body having a transverse interval between the same for passage

of the paper, located diametrically opposite the forward transverse slot of the platform plate.

2. In a device of the class described, a body having side frame pieces provided with circular end enlargements, an upper platform plate provided with forward and rear transverse slots and having part-cylindrical end portions overlying said circular enlargements, forward and rear paper rolls having journal bearings in said enlargements, and a hinged bottom having part-cylindrical end portions underlying said circular enlargements, the part-cylindrical end portions at the forward end of the body having a transverse interval between the same for passage of the paper, located diametrically opposite the forward transverse slot of the platform plate, the rear paper roll having a double layer of paper passing therefrom over the platform plate and through the forward transverse slot thereof, the forward paper roll having the lower layer wound thereon, the end portion of the upper layer having a bend formed therein over the forward paper roll and passing through said transverse interval.

3. In a device of the class described, a body having side frame pieces provided with apertures and end enlargements, an upper platform plate having upward extending end portions overlying said enlargements and forward and rear transverse slots, paper rolls having journal bearings in said enlargements, a hinged bottom having downward extending ends underlying said enlargements, and upward extending side portions fitting adjacent to and provided with apertures capable of alinement with the apertures of the side frame pieces, said hinged bottom having spring fastening means.

4. A device of the class described, having a platform plate, upper forward and rear transverse slots at the opposite ends of said plate, forward and rear paper roll spindles, and a third transverse slot at the opposite side of the forward paper roll spindle from the upper forward slot at one end of the platform plate.

5. A device of the class described, having a platform plate upper forward and rear transverse slots at the opposite ends of said plate, forward and rear paper rolls, and a third transverse slot at the opposite side of the forward paper roll from the upper forward slot at one end of said platform plate, the rear paper roll having a double layer of paper passing therefrom over said platform plate and through the upper slots at the ends of said plate, the forward paper roll having the lower paper layer wound thereon and the upper paper layer having a bend therein located over and in contact with the forward paper roll and passing out of said

third transverse slot whereby the lower paper layer is caused to wind upon the forward paper roll as the end portion of the upper paper layer is withdrawn from the device.

6. In a device of the class described, a body section having end enlargements, a hinged bottom, paper rolls in said enlargements, a longitudinal carbon sheet roll within said body section, said hinged bottom having upward extending side portions located at each side of the side portions of the body section and separated therefrom by narrow intervals.

7. In a device of the class described, a body section having end enlargements, a hinged bottom, paper rolls within said en-

largements, a longitudinal carbon sheet roll within said body section, said body section being adapted for passage of the carbon sheet transversely across the same down one side at the inside thereof and up one side at the outside thereof, said hinged bottom having an upward extending side wall located at one side of the side portion of the body section which the carbon sheet engages and separated from said side portion by a narrow interval.

In testimony whereof I affix my signature in presence of two witnesses.

ULYSSES GRANT CAVE.

Witnesses:

THOS. W. MORAN,
C. H. JENKINS.