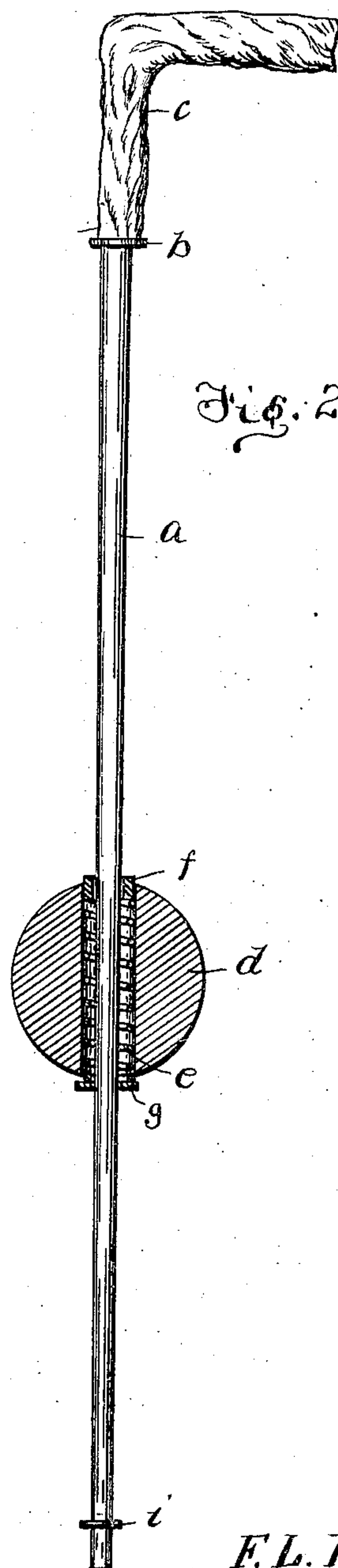
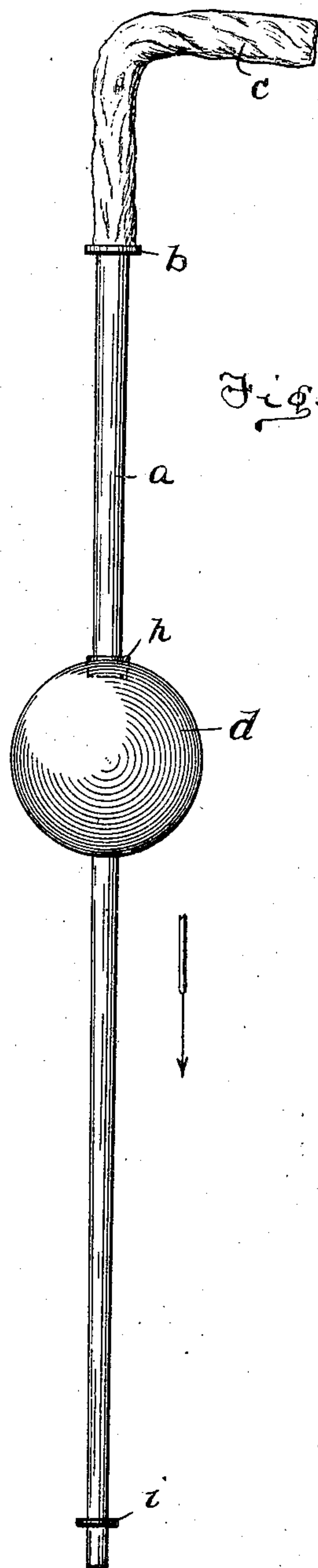


No. 847,066.

PATENTED MAR. 12, 1907.

F. L. HALL.  
CANE.

APPLICATION FILED MAR. 19, 1906.



Witnesses  
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# UNITED STATES PATENT OFFICE.

FRANCIS L. HALL, OF SAN PEDRO, TERRITORY OF NEW MEXICO.

## CANE.

No. 847,066.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed March 19, 1906. Serial No. 306,877.

*To all whom it may concern:*

Be it known that I, FRANCIS L. HALL, a citizen of the United States, residing at San Pedro, in the county of Santa Fe, Territory of New Mexico, have invented certain new and useful Improvements in Canes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which is appertains to make and use the same.

This invention has relation to canes, walking-sticks, and other means usually carried by the hands of persons.

It is the object of the invention to provide a cane, walking-stick, umbrella-handle, whip-stock, or other similar article with a device that may be used as a diversion or pastime when it is desired to have time pass lightly or when it may be wanted to furnish amusement for children, &c.

The invention consists of a cane or other device provided with a permanent magnet, the said cane passing through a rebounding ball or having a ball attached thereto provided with an armature or keeper to coöperate with the ball in using it as specified.

The annexed drawing forms a part of this specification and is to be referred to as such, of which drawing—

Figure 1 is a side elevation of a cane embodying the present invention. Fig. 2 is a view showing the cane proper in elevation and the remaining parts in section.

Similar letters designate similar parts or features, as the case may be, wherever they occur.

In the drawings, *a* designates a cane-staff, walking-stick, or other means adapted to have applied or attached thereto a permanent magnet *b* of a horseshoe or bar type. When deemed necessary or when fancy may dictate, the stick *a* may be provided with a handle *c*.

*d* designates a ball of any kind that will rebound, and to accomplish this end, if necessary, it may be provided internally with a helical spring *e*, acting on external plates *f g* at opposite points to effect a rebound, though

these means are not essential, since rubber may be variously employed to effect the bounding of the ball, which is provided with a steel plate or piece *h* to act in connection with the magnet as an armature or keeper to attract the ball to the armature.

As herein shown, the staff *a* is extended through the ball *d*, and the former is provided on its lower end with a flanged ferrule *i* in order that the ball may not slip off the staff and become lost.

When constructed as shown in Fig. 1, a slight jar on the bottom of the staff may send the ball to the bottom, and a slight rebound in connection with the magnet will carry it back again to the top of the staff.

In other words, the invention is designed to be applied to canes or other useful things and to be used as a diverter of the mind from burdensome cares to things that will rest it or get it out of the way of wear and trouble. Again, the invention is a substantial toy that children may employ in many at present unthought of ways for amusement or pastime. It is obvious that it is susceptible of changes that will not only not depart from its spirit, but that will enhance its usefulness with no substantial change in form.

What is claimed is—

1. The combination of a staff or stick provided with a permanent magnet with an attached ball equipped with an armature or keeper.

2. The combination of a staff or stick provided with a permanent magnet, with an attached rebounding ball equipped with an armature or keeper.

3. The combination with a cane having a handle and a permanent magnet, of a rebounding ball through which the cane extends, said ball being equipped with an armature or keeper.

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

FRANCIS L. HALL.

Witnesses:

CON. J. SULLIVAN,  
JANE LARRUTHERS.