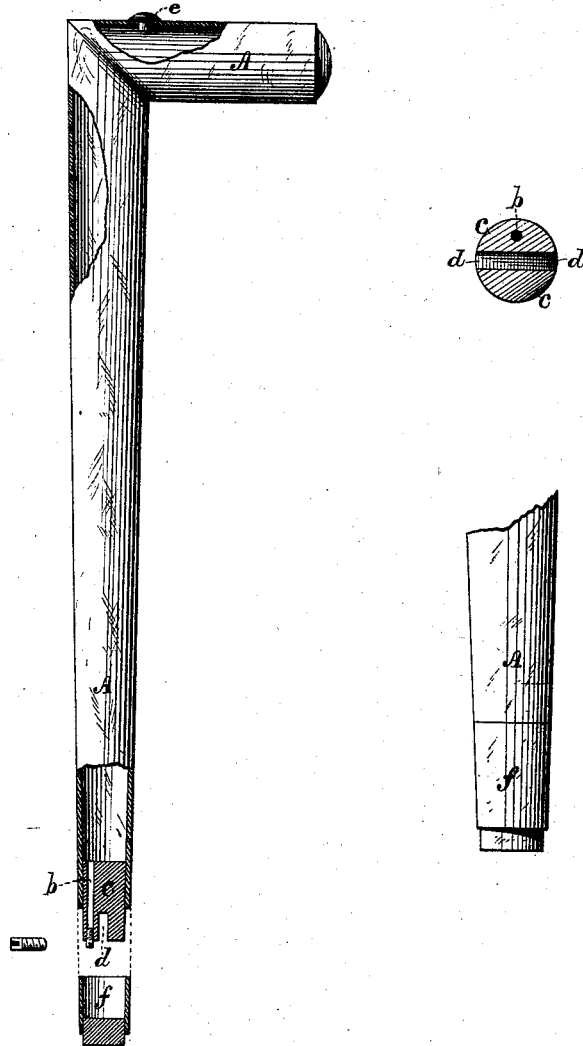


Le R. W. ROOD.
Cane.

No. 203,559.

Patented May 14, 1878.



WITNESSES-

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UNITED STATES PATENT OFFICE.

LE ROY W. ROOD, OF AURORA, ILLINOIS.

IMPROVEMENT IN CANES.

Specification forming part of Letters Patent No. 203,559, dated May 14, 1878; application filed April 19, 1878.

To all whom it may concern:

Be it known that I, LE ROY W. ROOD, of Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Combined Walking - Cane, Gas-Holder and Gas-Burner, Key, and Lighter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My combination implement is constructed as follows: A represents a tubular cane, which may be made either wholly of sheet or other metal, or of wood, hard rubber, or other non-metallic substance; and when not of metal it may inclose within it or be internally lined with metal, or with any other material or composition not liable to be affected or injured by gases adapted for illuminating purposes. This hollow chamber within the cane may also extend into the handle, as well as through the body of the cane, thus increasing its gas-holding capacity; and this gas-holding chamber may be filled by introducing gas at the small hole or inlet *b* at the tip of the cane, and which orifice also serves as the outlet or burner, from which the gas escapes to be lighted. This burner may be of any desired or well-known kind as to the form or character of its orifice or orifices for emitting the gas, and it may form part of the same metallic piece or plug *c* that closes the bottom end of the cane, and in which piece is made a transverse slot, *d*, which serves as a key to turn on and off the gas-cock of any ordinary gas-light bracket or chandelier.

At the top or handle of the cane is a small plug, cap, or screw, *e*, designed to permit air to pass out from the cane when it is being filled with gas, and also to admit air when the gas is being burned at the other end.

A cap or ferrule, *f*, is removably applied to the bottom when in use as a cane, and this serves to keep dirt out of the slot *d* and hole *b*, as also to save them from wear. This ferrule may be held on by friction or tight fitting, by a screw-thread, or by a bayonet-joint, or in any other suitable manner.

To fill the cane with a charge or supply of gas, the plug, cap, or screw *e* is moved or turned a little, just sufficient to permit the inclosed air to escape as fast as the gas may enter. The ferrule is removed, and then, the cane being placed with its top or handle downward, any appropriate piece of gas-hose is connected at one of its ends to any convenient ordinary gas-burner in the house, and at its other end to the burner end of the cane, and the gas being let on, the tube of the cane becomes filled with it, and which, upon entering it, of course drives the air downward and out through the slight outlet, and when the whole is expelled the device *e* is made to close this outlet. The ferrule *f* being now put on, the whole is ready for use as a cane. When to be used as a gas-lighter, remove the ferrule, hold the cane with its burner end uppermost, and light the jet of gas, which will thence escape. A little air may be let into the opposite end to assist the exit of the gas. It is now ready for use as a lighter of other gas-jets, by using the key or slot *d* to turn on the gas at such jets, and then igniting the same from the cane-burner.

As the supply of gas within the case may be considerable, the cane may also be used as a portable lamp or lantern in the country, or for walking through dark streets at night.

After a portion of the gas has been consumed, the cane being inverted to be used as a cane, the gas rises to the top, and it is in no danger of escaping at the bottom, the latter being also, as before stated, covered and protected to prevent such escape even when held upside down.

If desired, the small hole *b* may be closed by a small cock or check-screw, to prevent escape of gas at all times except when the gas is to be introduced or consumed.

By my construction no wick is needed, and no oil or greasy material used, and there is no danger of soiling the hands or clothing, the implement being at all times as tidy and cleanly as any ordinary solid cane, and it does not need to be any larger than such canes are usually made, nor of any different exterior; nor is there any need of any inconvenient projections of any sort, as all the parts which are visible may be flush with the exterior surface.

It will be evident that my invention may be

used as an umbrella stock or stick as well as for a cane.

I am aware that a portable gas-holder has been devised having a laterally-projecting inlet tube or mouth provided with a gas-stop cock, and having an unclosed outlet. This, therefore, I do not claim; but

What I claim is—

1. A tubular walking-cane adapted to hold a supply of gas, and provided at its tip with a gas-burner orifice, and with a slot or key, *d*, as and for the purposes described.

2. The tubular cane provided with the burner-orifice, the slot or key *d*, and an air-inlet, as and for the purpose described.

3. The tubular cane provided with the burner-orifice, the slot or key *d*, an air-inlet, *e*, and a removable cap-piece or ferrule to cover and protect the burner and key, substantially as shown and described.

LE ROY W. ROOD.

Witnesses:

ALEXANDER C. LITTLE,
L. ISHAM WHITE.