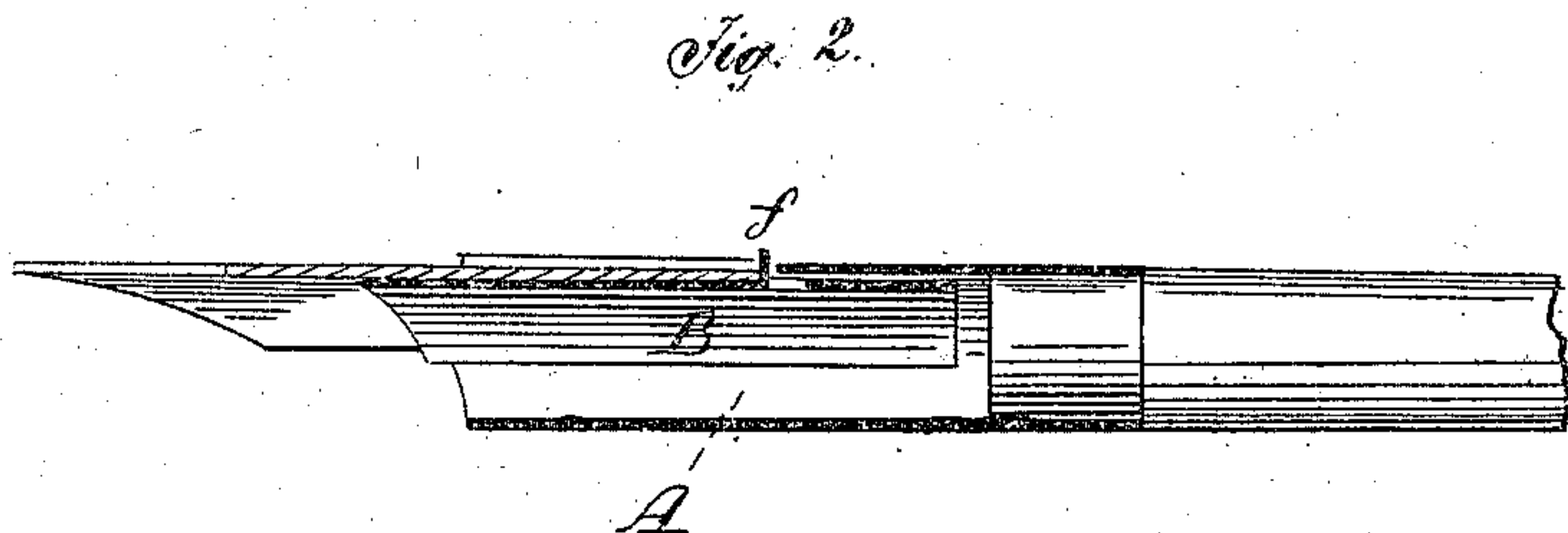
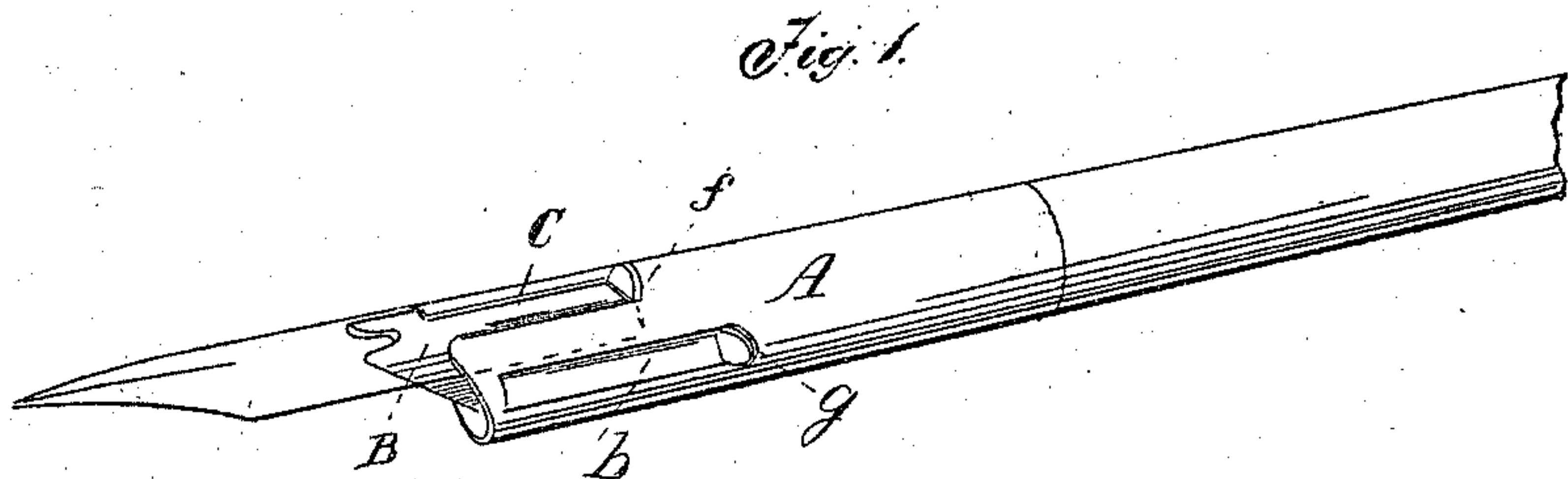


*G. Harrison,
Pen Case.*

No 90168.

Patented May 18 1869.



WITNESSES,

*Gustave Dietrich
Wm A Morgan*

INVENTOR

*Geo Harrison
per Munroe &
Orange*

United States Patent Office.

GEORGE HARRISON, OF NEW YORK, N. Y.

Letters Patent No. 90,168, dated May 18, 1869.

IMPROVEMENT IN PEN-HOLDERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE HARRISON, of New York, in the county of New York, and State of New York, have invented a new and useful Improvement in Pen-Holders; 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 make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved device for discharging or removing metallic pens from their holders after they have become useless; and

It consists in a sliding tube connected with the barrel of the holder, confined by and operating in slots in the barrel, provided with projecting lips or ears, as hereinafter described.

In the accompanying sheet of drawings—

Figure 1 represents a longitudinal section of a pen-holder, provided with my pen-discharger, and seen as ready for use.

Figure 2 is a view of the same, with the side of the barrel broken away, so as to show the discharger.

Similar letters of reference indicate corresponding parts.

A represents the barrel of the holder.

B is the discharger.

The pen is seen in red color.

All who have used steel or other metallic pens have experienced the difficulty of removing them from the holder after they have become useless from wear or corrosion. There is no method at present of removing them but pulling them out, frequently requiring a great effort, always soiling the fingers in the operation, and not unfrequently the pen is broken off in the holder, thus rendering the latter useless.

My discharger is a perfect remedy for all these evils. It forms in itself a portion of the holder, the pen being slipped in between it and the barrel.

The discharging-tube is slit lengthwise, and a por-

tion of the metal is removed, leaving a slot its whole length, so that it may accommodate itself to the expansion and contraction of the barrel in inserting and discharging pens.

The barrel has a longitudinal slot on its top, seen at *c*, and another on its side, seen at *b*; the former slot runs out at the end of the barrel, the latter does not, but forms a stop for the discharger, to prevent its sliding from the barrel. For each of these slots, the discharger has a projecting lip, they being a portion of the discharging-tube, turned at right angles with the tube.

The lip in the slot on the top of the holder is seen at *f*, the other is seen at *g*. The former lip *f* is a stop for the pen, the latter is for sliding the discharger in removing the pen, and also a stop for the discharger. The upper lip would answer for both purposes, but the side lip *g* is considered more convenient for operating the discharger, and is necessary as a stop.

The pen is inserted between the discharger and the barrel, and up to or near the lip *f*, as seen in fig. 2.

In shoving the discharger forward, it will be seen that the pen will be shoved forward by the lip *f*, and instantly removed. The advantages of this arrangement will be readily understood and appreciated by all.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

Discharging the pen from the barrel A by means of the lips *f g*, upon the divided discharge-tube B, working within the slots C *b* of the barrel A, all the parts being constructed and arranged as herein shown and described.

The above specification of my invention signed by me, this 19th day of January, 1869.

GEORGE HARRISON.

Witnesses:

FRANK BLOCKLEY,
E. GREENE COLLINS.