

(No Model.)

C. W. JUSTUS.
TOOL HOLDER.

Patented Mar. 16, 1897.

No. 579,064.

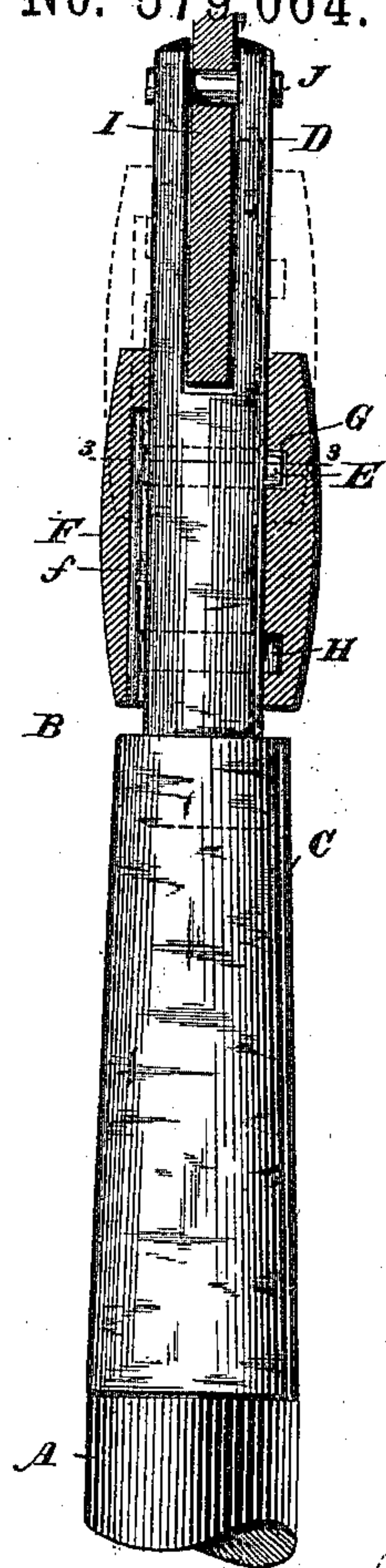


Fig. 2.

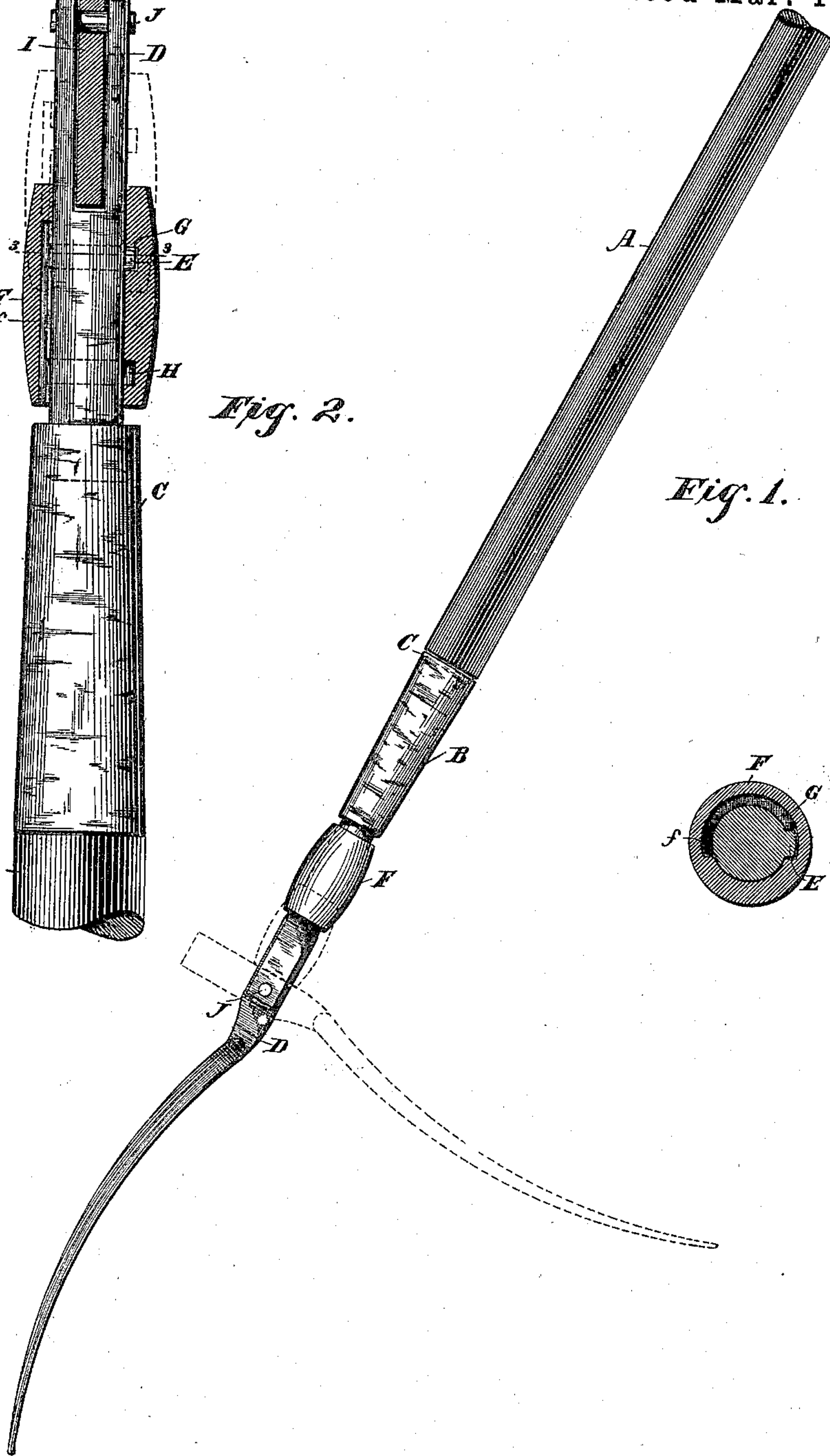


Fig. 1.

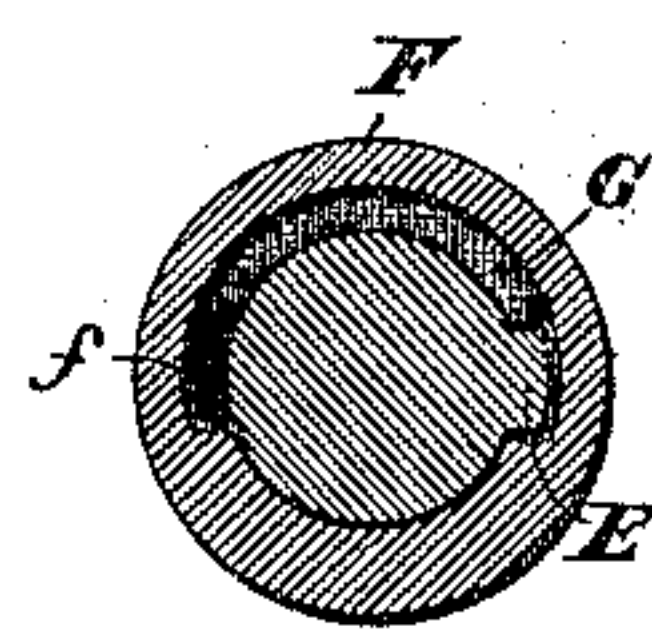


Fig. 3.

Witnesses
Louis G. Julihn
James D. Mansfield.

Inventor
Charles W. Justus.
for Alexander & Sowell
Attorneys

UNITED STATES PATENT OFFICE.

CHARLES WITMER JUSTUS, OF LIMA, OHIO, ASSIGNOR OF ONE-HALF TO
ALVARO L. BOWER, OF SAME PLACE.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 579,064, dated March 16, 1897.

Application filed November 5, 1896. Serial No. 611,150. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WITMER JUSTUS, of Lima, in the county of Allen and State of Ohio, have invented certain new and useful
5 Improvements in Tool-Holders; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in handles for interchangeable tools or utensils, its object being to provide a handle with a simple, reliable, and easily-operated fastening device, whereby different tools or implements,
15 provided with suitably-formed shanks, can be interchangeably employed with the same handle or holder and can also be fixed in different positions on the handle.

The invention therefore consists in the
20 novel construction and combination of parts summarized in the claims, and the following description and drawings will impart a clear understanding thereof.

Referring to said drawings, Figure 1 is a
25 side view of a handle-fastening device and pitchfork, showing the fork held straight in full lines and arranged as a fork-hoe in dotted lines. Fig. 2 is a longitudinal section through the same. Fig. 3 is a transverse section on line 3 3, Fig. 2.

30 A designates an ordinary handle, on the end of which the holder B is attached. As shown, the holder consists of a rod provided with a socket C at one end for attachment to the
35 handle, and its other end is longitudinally slotted, as at D, for about one-third of its length, and below the slot is a projecting lug E.

On the cylindrical portion of the holder is fitted a sleeve F, having a longitudinal internal groove *f*, which enables the sleeve to be slid on the rod and over lug E, and near the ends of the sleeve and within it are cam-grooves G and H, which open into groove *f* and extend partly around the inner circumference of the sleeve, either groove being
45 adapted to slip over lug E, as indicated in the drawings, and when thus engaged longitudinal motion of the sleeve is prevented. Thus by partly turning the sleeve until lug E enters slot *f* the sleeve can be slipped up or
50 down or back and forth on the holder, and by

partly rotating it, so as to cause either groove G or H to slip over lug E, the sleeve can be locked in the positions indicated in the drawings.

I designates the tang of a fork, hoe, spade, 55
or other implement, or the shank of a brush or other tool or utensil, which fits within slot D and is hinged therein by means of a pin J, passing through properly-formed coincident
60 holes in the shank and in the bifurcations of the holder, as shown. When the shank I is turned so as to lie in slot D, sleeve F is slipped up on the holder and sufficiently over the end of the shank to prevent it turning in the
65 holder. Then the sleeve is partly rotated, so as to cause groove G to engage lug E, whereby the sleeve is bound tightly in place and firmly holds the shank in line with the holder.

By loosening sleeve H and turning the
70 shank I to the position indicated in dotted lines, Fig. 1, then slipping the sleeve up against the shank and turning the sleeve so as to bind lug E in groove H the fork or other implement will be held at right angles to the
75 handle.

It will be obvious from the foregoing description and drawings that the holder can be used with all kinds of implements and tools, such as shovels, hoes, brushes, rakes, spades, 80
&c., if the latter are provided with proper shanks I, the tools being interchangeable and detachable at will by simply loosening sleeve F and removing pivot J. I do not therefore confine myself to the employment of the de- 85
vice with a fork such as is shown in drawings.

Having thus described my invention, what I therefore claim as new, and desire to secure by Letters Patent thereon, is—

1. The combination of the holder having a 90
cylindrical portion slotted at one end for the reception of a removable tool-shank pivoted in said slot; and a projecting lug substantially as described, with a sleeve having a longitudinal internal groove to permit it to 95
be slipped over said lug, and having internal circumferential cam-grooves near its ends opening into said longitudinal groove, and adapted to engage said lug, for the purpose and substantially as described. 100

2. The combination of the handle, the holder attached thereto having a cylindrical portion

slotted at its outer end as at D for the reception of a tool-shank, a pin J for pivoting said shank in the slot; and a lug E below said slot; with the sleeve F slipped over said slotted portion of the holder and having a longitudinal internal groove *f* and cam-grooves G and H near its opposite ends connecting with groove *f* and adapted to engage lug E, said sleeve being adapted to be adjusted substantially as described so as to prevent the shank

turning on its pivot, all substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CHARLES WITMER JUSTUS.

In presence of—

JOHN HOFFMAN,
A. L. FRISBIE.