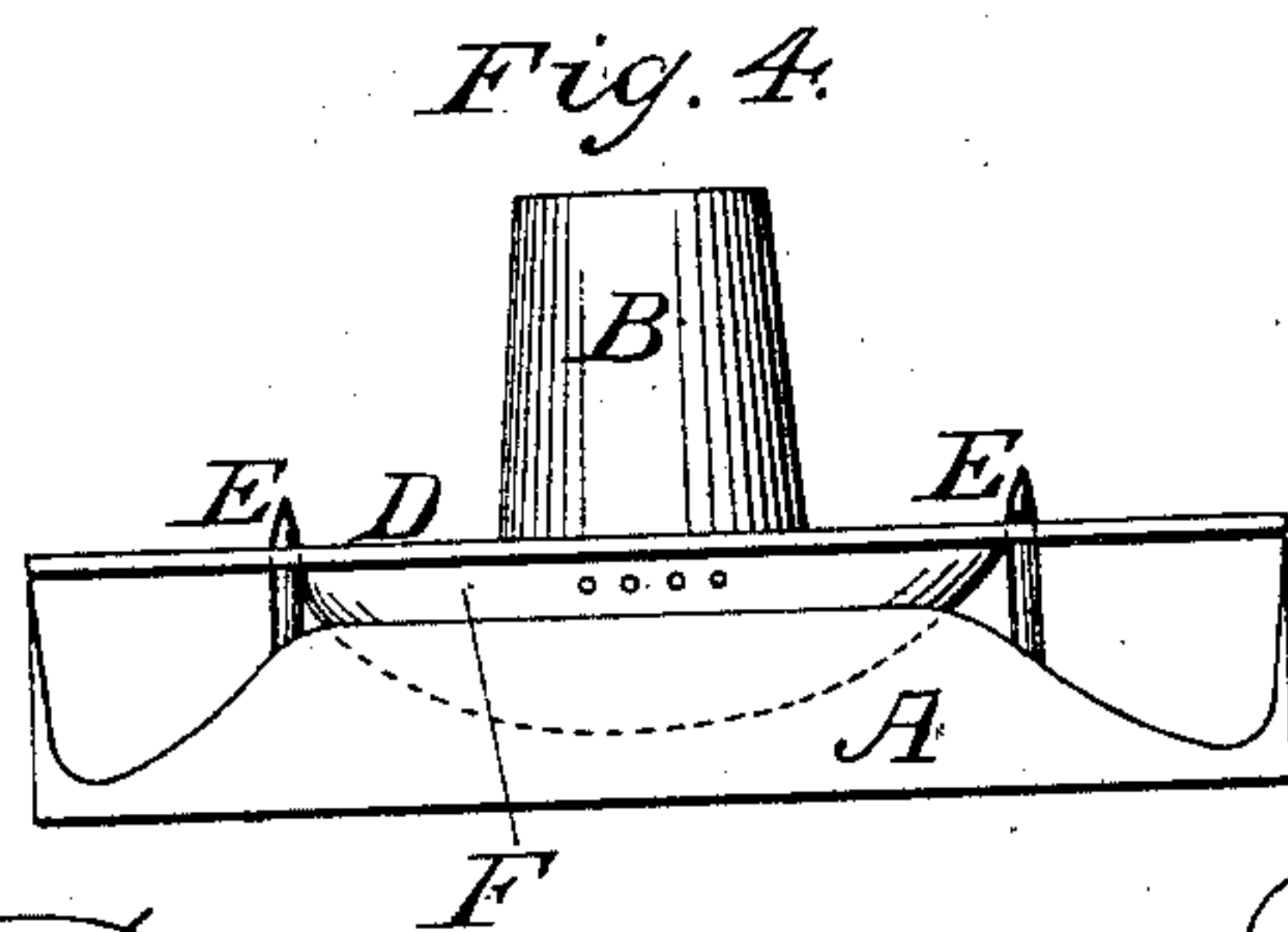
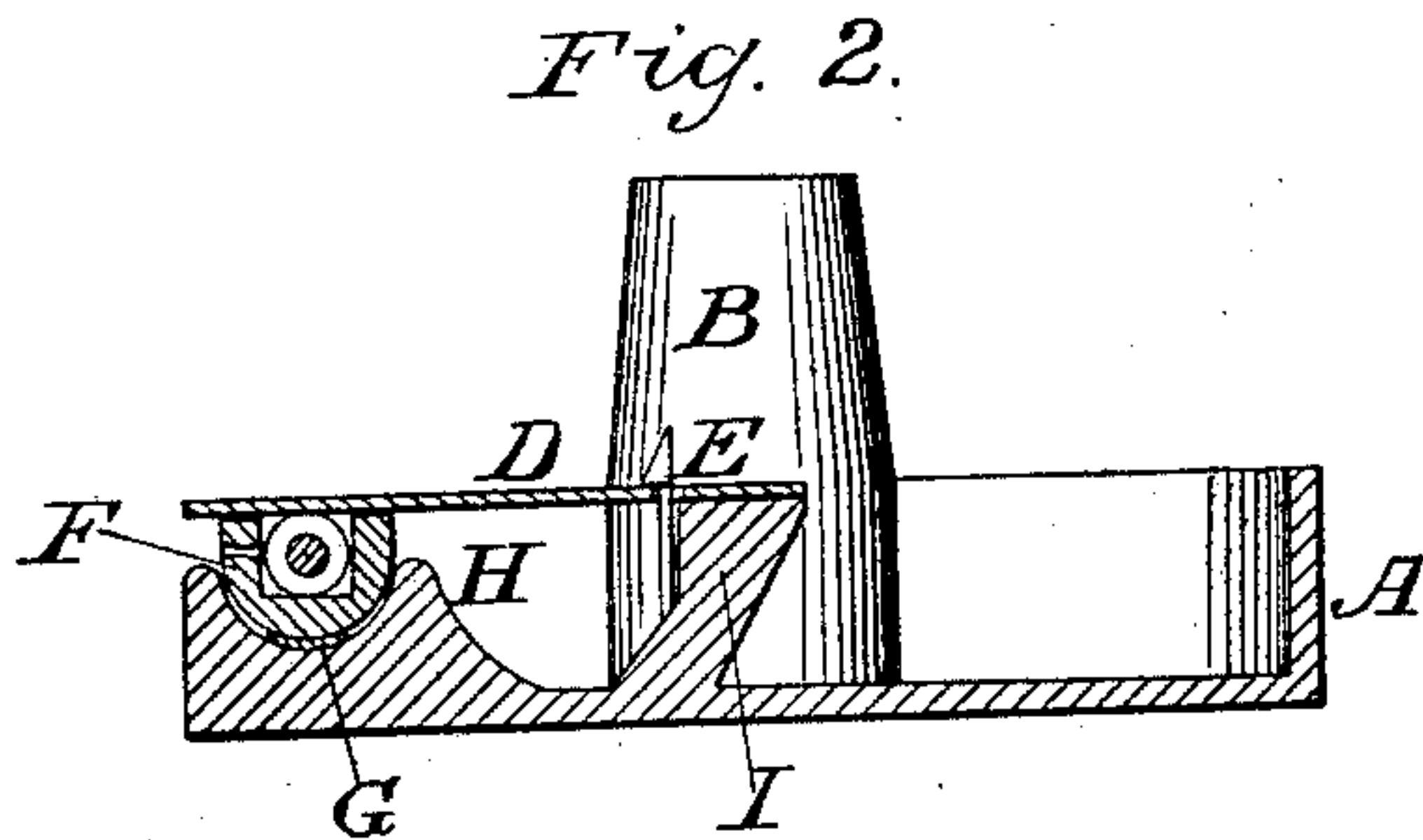
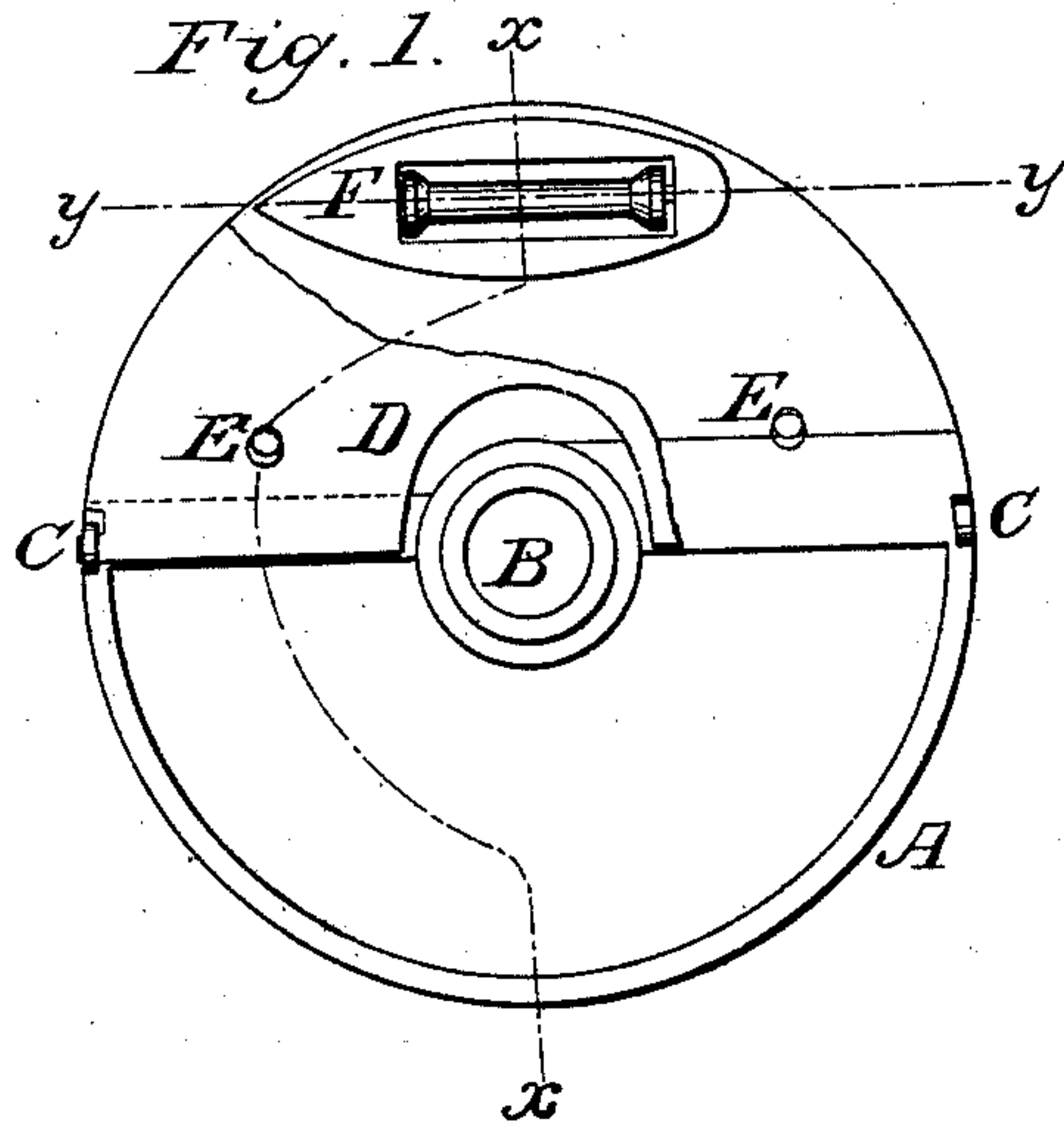
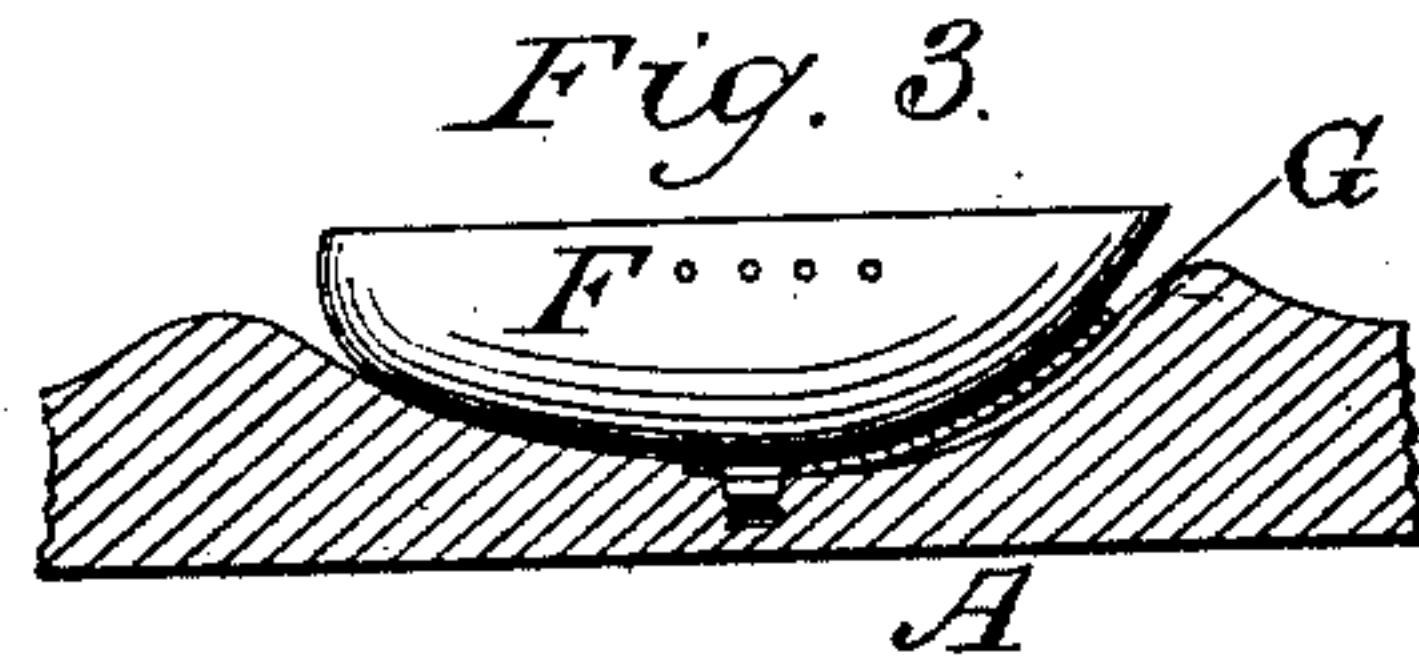


J. SHELLENBERGER.

SHUTTLE CARRIER FOR SEWING MACHINES.

No. 57,585.

Patented Aug. 28, 1866.



Witnesses:

*J. W. Blount*  
 *Jas. A. Devol*

Inventor

*J. S. Sellenberger*  
*Per Munn*  
*Kennedy*

# UNITED STATES PATENT OFFICE.

JOHN SHELLENBERGER, OF HAMPSHIRE, ILLINOIS.

## IMPROVEMENT IN SHUTTLE-CARRIERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 57,585, dated August 28, 1866.

*To all whom it may concern:*

Be it known that I, JOHN SHELLENBERGER, of Hampshire, in the county of Kane and State of Illinois, have invented a new and useful Improvement in Shuttle-Carriers for Sewing-Machines; 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, in which—

Figure 1 is a side view of a shuttle-carrier made according to my invention, the gate which incloses the shuttle being partly broken away in order to show the shuttle. Fig. 2 is a cross-section taken along the bent line *x* of Fig. 1. Fig. 3 is a cross-section in the plane of the line *y* of Fig. 1. Fig. 4 is an edge view, showing the shuttle in its place.

Similar letters of reference indicate like parts.

The object of this invention is to simplify and improve the shuttle-carrier of sewing-machines, which is now an expensive part of the machine, and not distinguished for simplicity either in construction or in the matter of adjustment.

My improvement is so made that it can be readily and cheaply applied to loop-stitch or single-thread sewing-machines, thereby changing them into double-thread lock-stitch machines.

The invention consists, among other things, in providing a circular-shaped carrier, which is mounted at its center upon the looper-shaft or other lower shaft of a sewing-machine, to which a rocking or oscillatory motion is given. That part of the rim of the wheel which is uppermost is split into two parts down to the line of its diameter, the part split off being hinged to the main part, and forming a gate which shuts up the shuttle in its bed, said gate being itself held fast, when closed, by spring-hooks. The needle descends between the edge of the gate and the rim of the rest of the wheel, and presents the loop of its thread before the nose of the shuttle as the latter is moving forward.

The letter A designates the wheel which forms the shuttle-carrier. It has a central hub, B, in which is fitted the end of a looper or other shaft below the cloth-table of a sewing-machine, such shaft being made to oscil-

late or rock back and forth, so that the wheel or shuttle-carrier will be moved forward so far only as is necessary to carry the shuttle through the loop of the needle-thread. One side of the wheel is close or solid; but the other side is closed only over one-half its surface by a gate, D, hinged to the rim at points C C, which occur in the same diametrical line, the central part of the gate being cut away to allow it to be turned up without coming in contact with the hub B.

The rim is strengthened at the points where the gate is hinged by radial ridges I, extending to the rim from opposite sides of the hub.

That part of the wheel which is covered by the gate is provided with a socket or bed, H, for the shuttle near the rim of the wheel, the said socket or bed being made in the side of a block which is placed at that part. When the gate is down it is kept closed by spring-hooks E E, that go through holes in it, and the shuttle is thereby confined and kept in proper position for the operation of sewing, its forward part or nose being kept raised slightly by a spring, G, that is placed in the forward part of the socket. The rim of the wheel on that part of it which is beneath the gate is narrower than its other part, so as to leave a clear space between the edge of the rim and the gate, as shown in the edge view, Fig. 4, which space is partially occupied by the shuttle, that side thereof from which its thread is delivered being presented at the opening. The back of the shuttle rests in the socket or bed H, and its open flat side is in contact with the gate, which serves not only to hold it in place, but also to cover the bobbin and keep dust from it.

To remove the shuttle it is only necessary to push back the spring-hooks, when the gate can be raised on its hinges.

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

The shuttle-carrier A, made substantially as described, with a socket near its rim for the shuttle, and a hinged gate, D, which confines the shuttle and covers the bobbin, said gate being provided with suitable means for locking and unlocking the same, as above set forth.

JOHN SHELLENBERGER.

Witnesses:

S. C. ROWELL,  
H. P. WILLIAMS.