

# C. Perley. Cleat.

N<sup>o</sup> 46,135. Patented Jan. 31, 1865.

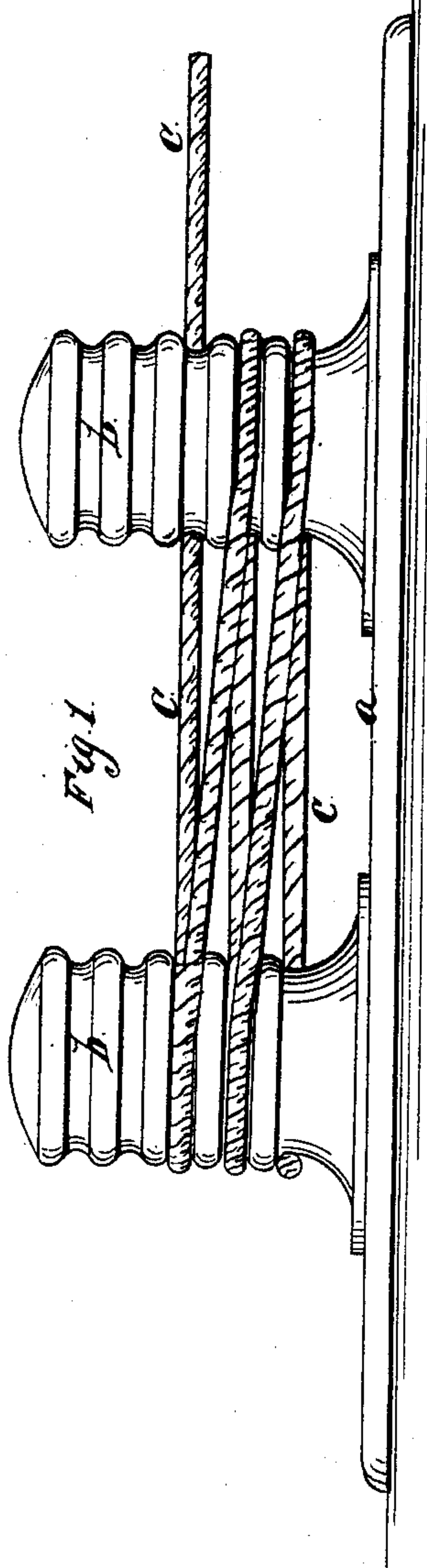
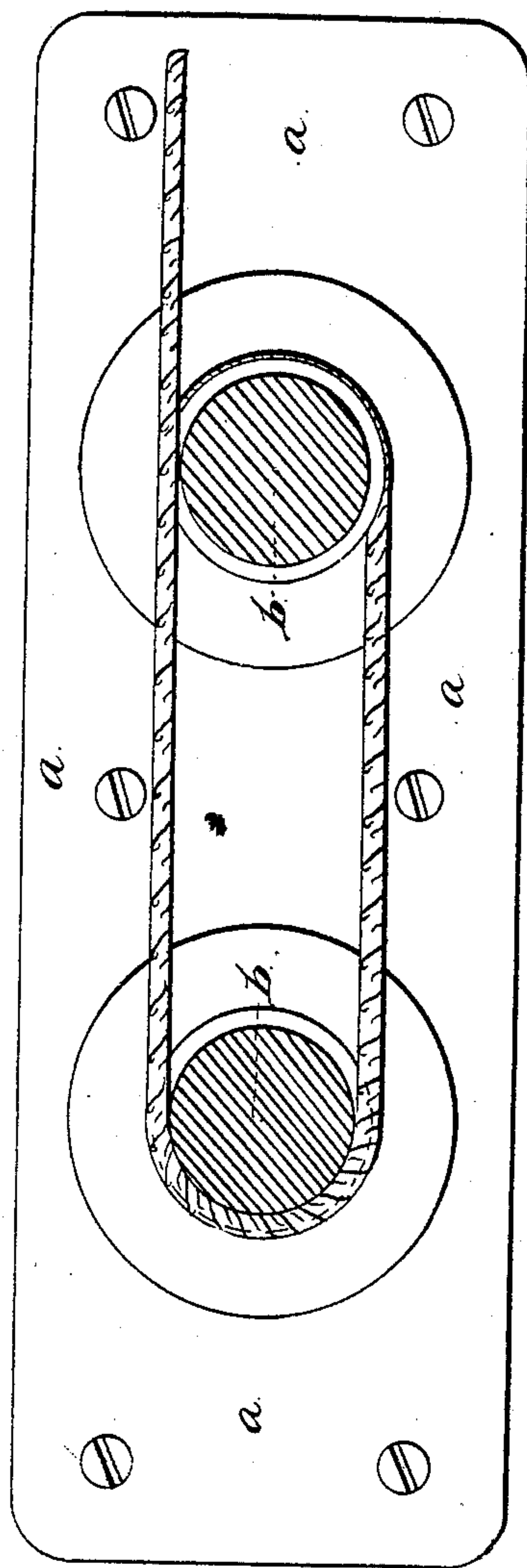


Fig. 2.



Witnesses:  
Lemuel W. Serell  
Thos. Geo Harold

Inventor  
Charles Perley

# UNITED STATES PATENT OFFICE.

CHARLES PERLEY, OF NEW YORK, N. Y.

## IMPROVED RIDING OR WARPING BITT.

Specification forming part of Letters Patent No. **46,135**, dated January 31, 1865.

*To all whom it may concern:*

Be it known that I, CHARLES PERLEY, of the city and State of New York, have invented, made, and applied to use a certain new and useful Improvement in Riding or Warping Bitts for Vessels; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 is a plan, and Fig. 2 is an elevation, of said bitts.

Similar letters indicate like parts.

Riding-bitts have heretofore been made of iron, around which the rope or chain passes, and such bitts have been made larger at the top than the bottom, to prevent the rope slipping off, and sometimes the said bitts are of wood. In all instances the rope is flattened on the side next the bitt, and after the rope has been used but a short time this flattening becomes apparent and generally increases, as the rope in use is almost sure to turn with its flattest side toward the bitt; hence the wear on the rope is very great, and, beside this, the rope leading off sometimes at an inclination upward slips up the bitts and becomes detached.

The nature of my said invention consists in riding-bitts formed of a series of semicircular grooves, whereby a bearing is taken upon nearly the half-circumference of the rope, and tendency to wear the same flat is prevented,

and said grooves, whether used with a rope or chain, prevent the same slipping up when passing off at an upward inclination.

My invention does not relate to grooved capstan-barrels, as I am aware that such have before been made.

In the drawings, *a* is a plate bolted to the deck or place receiving the same; and *b b* are the bitts, formed with semicircular grooves around them, as represented. *c* is the rope, which may be passed around the bitts in the manner shown or crossed in an 8 form.

The advantages of this article will be apparent from the foregoing, as the rope will wear much longer than when applied to the usual riding or warping bitts, and there being a larger surface bearing on the rope the friction will be greater with a less number of turns than now usual.

My device becomes a new article of manufacture, and it will be seen that the same may have a greater or less number of grooves than represented.

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

The pair of grooved riding-bitts formed and applied as and for the purposes specified.

In witness whereof I have hereunto set my signature this 30th day of May, A. D. 1864.

CHARLES PERLEY.

Witnesses:

LEMUEL W. SERRELL,  
THOS. GEO. HAROLD.