H. L. HEATON.

Combined Rope-Socket and Clamp.

No. 206,321. Patented July 23, 1878.

*Fig. 1.*

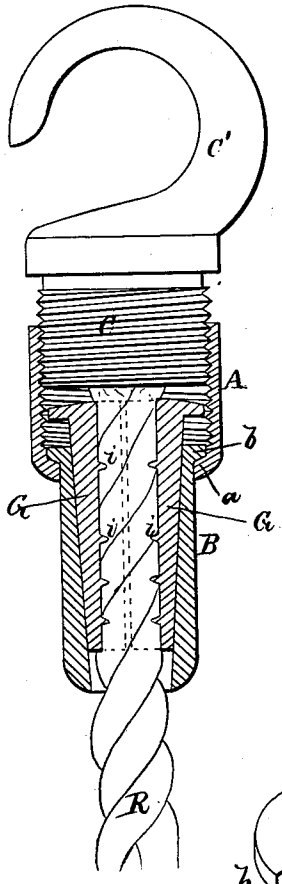



*Fig. 2.*

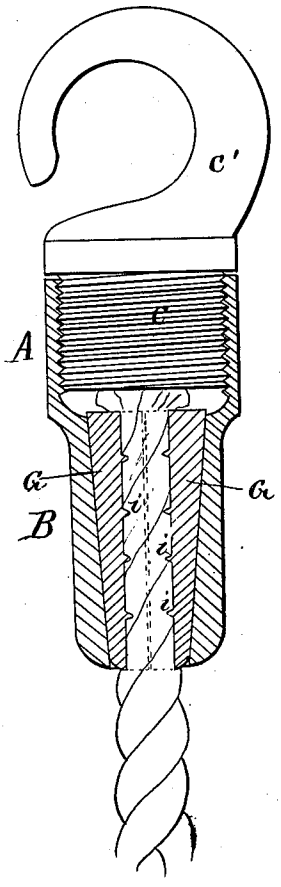
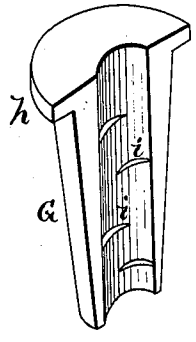



*Fig. 3.*




WITNESSES

Henry N. Miller

Frank Galt

INVENTOR

H. L. Heaton.

Alexander Heaton

ATTORNEYS

# UNITED STATES PATENT OFFICE.

HORACE L. HEATON, OF WEST JEFFERSON, OHIO.

## IMPROVEMENT IN COMBINED ROPE SOCKET AND CLAMP.

Specification forming part of Letters Patent No. **206,321**, dated July 23, 1878; application filed July 10, 1878.

*To all whom it may concern:*

Be it known that I, HORACE L. HEATON, of West Jefferson, in the county of Madison, and in the State of Ohio, have invented certain new and useful Improvements in Combined Rope Socket and Clutch; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a rope socket and clamp, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a section of my rope-socket, showing the thimble made in two parts. Fig. 2 is a similar view, showing the thimble made in one piece. Fig. 3 is a perspective view of one half of the clamp.

A represents the upper larger part, and B the lower smaller part, of the rope-socket. These two parts may be made in two separate pieces, as shown in Fig. 1, or in only one piece, as shown in Fig. 2. When made in two pieces the smaller thimble, B, is provided at its upper end with a circumferential flange or collar, *b*, which rests upon an interior shoulder or flange, *a*, at the lower end of the thimble A.

The large thimble, A, is provided with interior or female screw-threads, into which is screwed a plug, C, formed with the hook C′.

The bore of the smaller thimble, B, is made tapering—that is, larger at the upper than at the lower end.

The clamp for holding the rope is made tapering in two longitudinal parts, G G, which are provided on the inside with segmental teeth, *i i*, to enter the rope for holding the same firmly. Around the upper end of the clamp is formed a flange, *h*, as shown.

The rope R is passed up through the thimbles, when the clamps G G are placed around the rope at such a point as to leave only a small portion projecting above the same. The clamps, with the rope between them, are then passed into the thimble B and pressed therein. The plug C is then screwed into the thimble A, so as to force the tapering clamp as far down as possible into the tapering bore of the thimble B. The farther down the clamp is forced the more firmly and securely the rope is held.

It will also be seen that by screwing down the plug C the upper projecting end of the rope R becomes spread and flattened, so as to act the same as if there were a knot in the end of the rope.

If thought necessary, a set-screw may be passed through the thimble A into or to bear against the plug C, to prevent the same from becoming accidentally loosened.

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

The thimble A, having interior screw-threads and interior circumferential shoulder *a* below said threads, the tapering thimble B, and the bisected tapering clamp G G, having interior teeth *i i*, in combination with a solid screw-plug, C, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of June, 1877.

HORACE L. HEATON.

Witnesses:

WM. E. BOOTH,

JAMES H. MILLER.