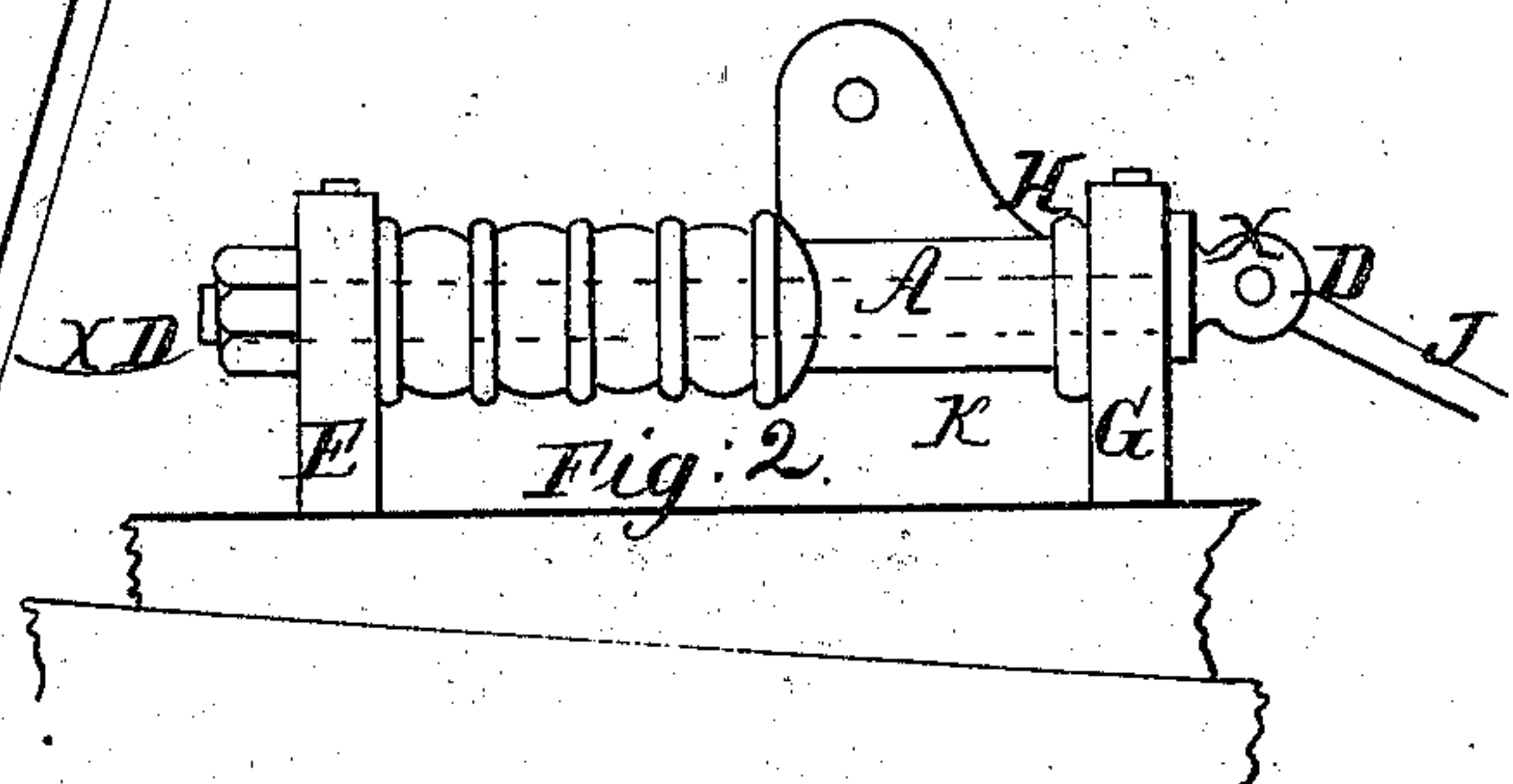
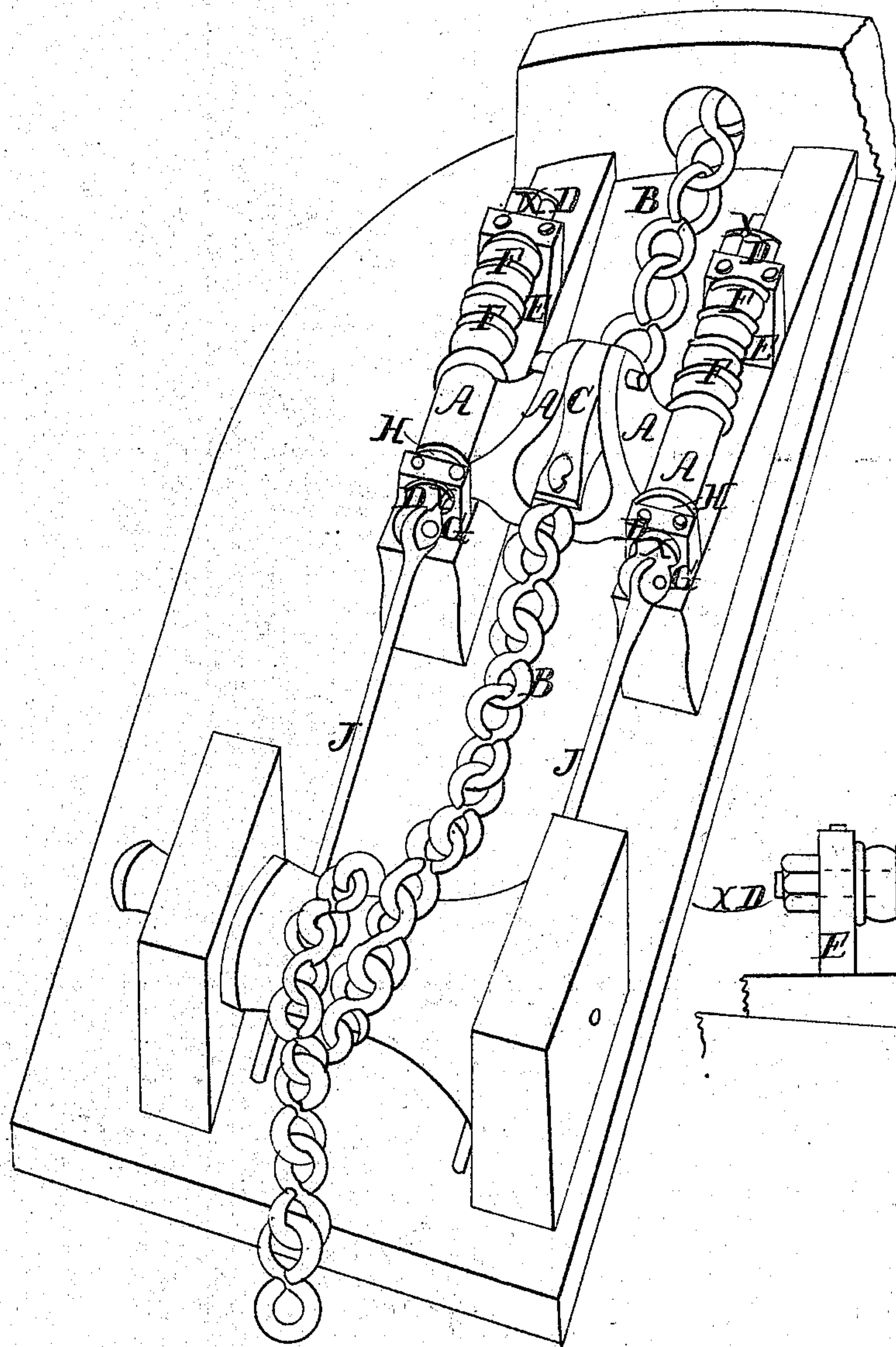


Cheney & Emery Elastic Coupling.

N^o 104,425.

Patented Jun. 21, 1870.

Fig. 1.



Witnesses

J. D. Smeadway
D. W. Coffin

Inventor
C. R. Cheney
J. J. Emery

UNITED STATES PATENT OFFICE.

ETHAN R. CHENEY, OF BOSTON, MASSACHUSETTS, AND JOHN J. EMERY,
OF OWL'S HEAD, MAINE.

IMPROVEMENT IN CABLE-STOPPERS.

Specification forming part of Letters Patent No. **104,425**, dated June 21, 1870.

To all whom it may concern:

Be it known that we, ETHAN R. CHENEY, of Boston, in the county of Suffolk and State of Massachusetts, and JOHN J. EMERY, of Owl's Head, in the county of Knox and State of Maine, have invented certain Improvements in Chain Stoppers or Holders, of which the following is a specification.

This invention is an improvement upon that described in the patent of J. J. Emery, issued September 21, 1869, and re-issued to himself and E. R. Cheney February 15, 1870; and it relates to the employment of an elastic cushion, in combination with the movable cable-holding part and the after standard, toward which it is forced by the recoil of the springs, and to the arrangement of supporting stay-rods for the guides and standards, all as more fully set forth below.

Figure 1 represents a perspective view of a portion of a vessel and the improved chain stopper or holder as applied to the vessel and the cable. Fig. 2 is a sectional side elevation.

Letter A designates the movable chain-holding part, which is provided with the pawl C, to grip the cable. This part A is supported upon guide-rods X, supported in turn by the standards E G.

To the after end of the rods or guides X D are secured the rods J, which extend in the "aft" direction, and are firmly secured to the timbers of the vessel. These stay-rods J are of great consequence in connection with the necessary frame-like construction of the ap-

paratus, and, acting in opposition to the strain exerted through the cable, afford great security and strength to the apparatus. The part A is resisted in the forward direction by means of springs F, interposed between it and the standards E. When strain is applied to the chain or cable B, as is the case to a greater or lesser extent when the vessel is riding at anchor, the part A is drawn forward toward the standards E. Whenever the strain is relaxed, the springs recoil, and if the relaxation is sudden the part A will be thrown backward by the recoil somewhat violently.

To overcome the shock occasioned by the part A being thrown in this manner against the standard G, we have provided between it and the standard G the elastic cushion H, which relieves the shock and prevents danger of breakage.

The cushion H may be of rubber or other elastic material.

We claim—

1. The elastic cushion H, in combination with the movable part A, the springs F, and the standards or stops, substantially as described.

2. The arrangement and combination of the stay-rod J with the elastic chain-stopper, guides and supports D X G E, substantially as described.

ETHAN R. CHENEY.
JOHN J. EMERY.

Witnesses:

J. D. SPAULDING,
D. N. B. COFFIN, Jr.