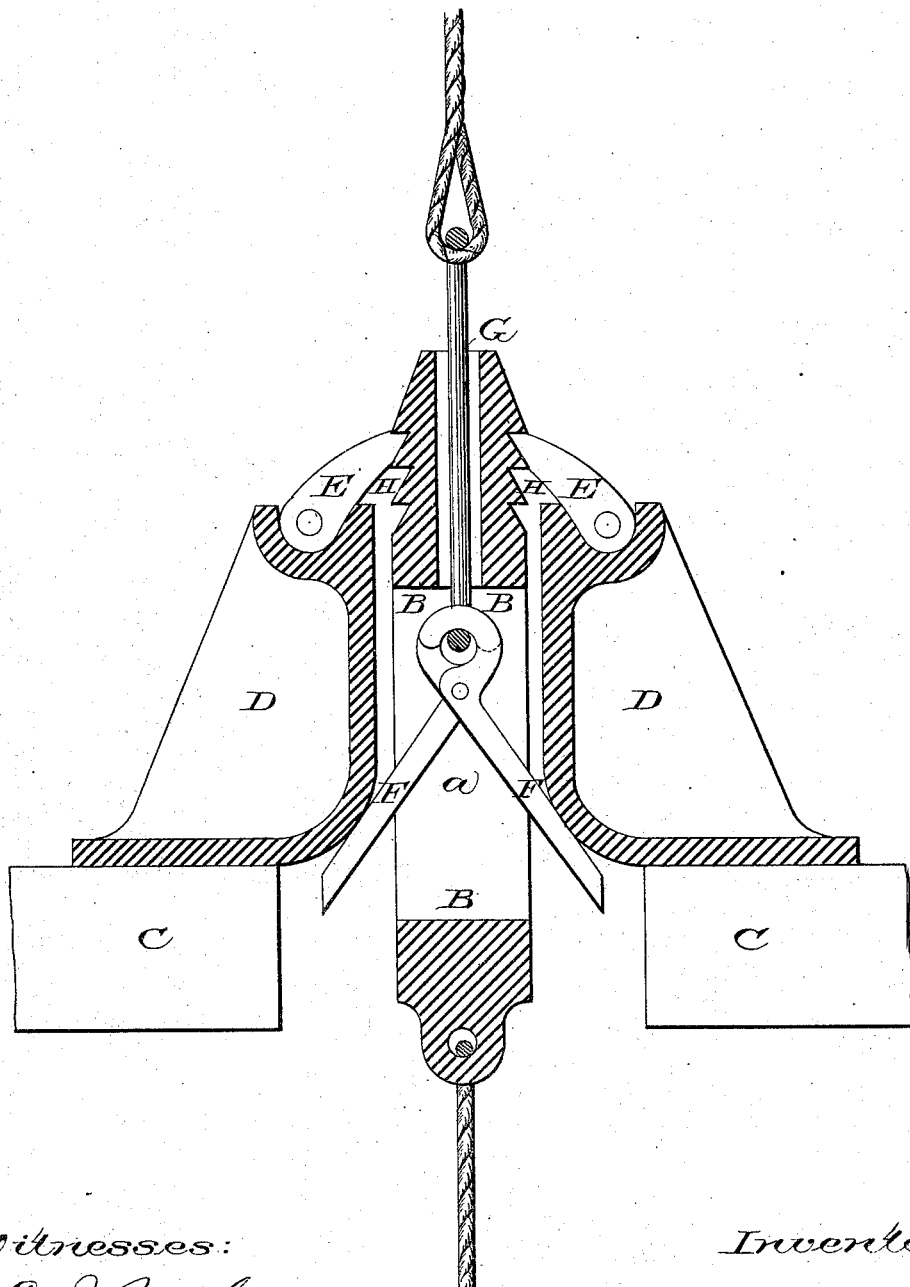


H. C. HARRISON.
Device for Preventing Overwinding of Ropes on
Shafts, &c.

No. 211,155.

Patented Jan. 7, 1879.



Witnesses:

E. J. Butler
F. J. Maupin

Inventor:

Harry C. Harrison.

UNITED STATES PATENT OFFICE.

HARRY C. HARRISON, OF EUREKA, NEVADA.

IMPROVEMENT IN DEVICES FOR PREVENTING OVERWINDING OF ROPES ON SHAFTS, &c.

Specification forming part of Letters Patent No. **211,155**, dated January 7, 1879; application filed October 17, 1878.

To all whom it may concern:

Be it known that I, HARRY C. HARRISON, of the town of Eureka, in the county of Eureka and State of Nevada, have invented an improvement or device in the machinery now in use to prevent the overwinding of ropes in shafts of mines, thus saving lives and property, of which the following is a specification:

C C represent the cross-timber placed between the guides, about three feet from the sheaves, supporting the bell-shaped casting D. B B represent the wrought-iron shell of the hook; A, the open space in which the arms F F are placed. D is the iron casting in which the pawls E E fit, which catch the ratchets H; G, the link fastened to the arms F F.

When the cage is run up too far, the pawls E E catch the ratchets H H, at the same time permitting the arms F F to press the sides of

casting, thus disengaging the link G, and holding the cage secure.

What I claim is—

1. The combination of the shell B B, having ratchets H H, with the arms F F, substantially as described.

2. The combination of the ratchet-headed shell B B and arms F F with the link G, substantially as described.

3. The combination of the entire parts, consisting of the shell B B, ratchets H H, arms F F, and link G, with the bell-shaped part D, having attached thereto the pawls E E, substantially as described.

HARRY C. HARRISON.

Witnesses:

E. J. BUTLER,
T. J. MAUPIN.