

W. H. Gray.
Cable Stopper.

No. 21,296.

Patented Aug. 24, 1858

Fig. 1.

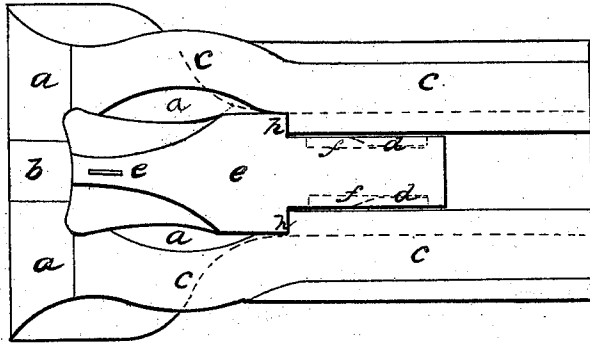


Fig. 2.

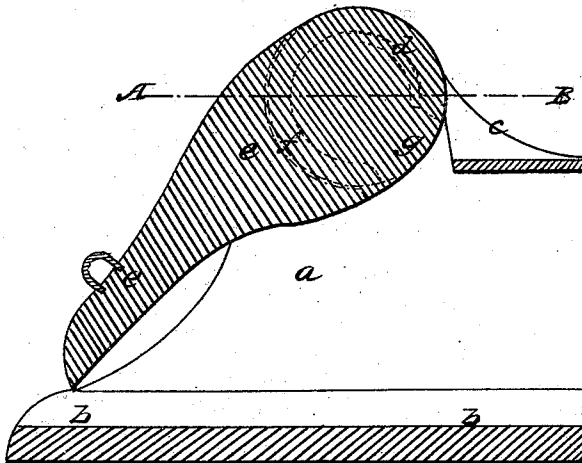
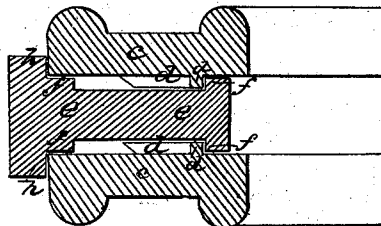


Fig. 3.



Witnesses.

Edw. Lincoln
Albert W. Brown

Inventor.

W. H. Gray

UNITED STATES PATENT OFFICE.

WM. H. GRAY, OF DOVER, NEW HAMPSHIRE, ASSIGNOR TO HIMSELF, AND ALBERT G. BROWNE, OF SALEM, MASSACHUSETTS.

CHAIN-STOPPER.

Specification of Letters Patent No. 21,296, dated August 24, 1858.

To all whom it may concern:

Be it known that I, WILLIAM H. GRAY, of Dover, in the county of Strafford and State of New Hampshire, have invented certain
5 new and useful Improvements in Chain-
Stoppers to be used in Connection with
Anchor-Cables on Shipboard, and that the
following description, taken in connection
with the accompanying drawings, forms a
10 full and exact specification of the same,
wherein I have set forth the nature and prin-
ciples of my said improvements, by which
my invention may be distinguished from all
others of a similar class, together with such
15 parts as I claim and desire to have secured
to me by Letters Patent.

The figures of the accompanying plate of drawings represent my improvements.

Figure 1 is a plan or top view of my im-
20 proved chain-stopper. Fig. 2 is a central
vertical section of the same. Fig. 3 is a
horizontal section taken in the plane of the
line A B, Fig. 2.

The strain which comes upon the pawl
25 of a chain-stopper when the anchor is being
weighed is so great, that it is very essential
that the utmost possible strength should be
provided in the bearings which sustain the
pawl. This cannot be the case when stand-
30 ards are used, as is usually the case, with
circular holes for supporting the shaft on
which the pawl turns, and my improvement
avoids the necessity of weakening the stand-
ards by thus making these holes, and leaves
35 them solid to sustain the whole strain which
is thrown back upon them through the pawl.
These stoppers are placed directly behind
the hawse holes in the night heads or near
the windlass.

40 My improved stopper is represented as
mounted or cast upon a tube of proper diam-

eter shown at *a a* Figs. 1 and 2 having a
guiding groove *b b* for the chain which holds
the anchor. The supporting standards or
ears *c c* are made nearly circular and as be- 45
fore suggested are cast solid upon or with
the top of the tube *a a* and on each of their
inner faces are provided with elongated
curved bossings or projections *d d* shown by
dotted lines in Figs. 1 and 2 on which the 50
butt or rear of the pawl *e e* is supported, by
being rabbeted or cut out on either side so
as to form a curved rim *f f* which rests on
said bossings as shown in Figs. 1 and 2.
Said rim has an opening *g g* to allow it to 55
be shipped or unshipped from the bossings
whenever required.

The pawl *e e* should be made very strong
at its butt and is formed near the same with
two shoulders *h h*, which, when the pawl is 60
in its diagonal position are brought to bear
against the front and underside of the stand-
ards or ears *c c*, so as to take the whole strain
to the said ears, which are not weakened as
before stated by having holes bored in them 65
to support the shaft of the pawl.

Having thus described my improvements,
I shall state my claim as follows:

What I claim as my invention and desire
to have secured to me by Letters Patent, is— 70

The improvement in chain stoppers here-
in above described which consists in hanging
the butt of the pawl on bossings cast on the
inside of the two supporting standards or
ears, in combination with the shoulders *h h* 75
on said pawl bearing against said stand-
ards as described, the whole being arranged
and operating as herein above specified.

W. H. GRAY.

Witnesses:

RHEIMUNT SAYER,
ALBERT W. BROWN.