T. A. BRISTOW.
SECURING OR FASTENING DEVICE.

No. 419,029. Patented Jan. 7, 1890.

[Diagram of securing or fastening device with labeled parts A, B, C, D, E, F, G, H, and I.]
UNITED STATES PATENT OFFICE.

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ONE-HALF TO JAMES L. NAPIER AND WILLIAM B. DRAKE, BOTH OF
SAME PLACE.

SECRING OR FASTENING DEVICE.

SPECIFICATION forming part of Letters Patent No. 419,029, dated January 7, 1890.
Application filed June 20, 1889. Serial No. 314,927. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. BRISTOW, a
citizen of the United States, and a resident of
Blenheim, in the county of Marlborough and
State of South Carolina, have invented cer-
tain new and useful Improvements in Secur-
ing or Fastening Devices; and I do hereby
declare that the following is a full, clear, and
exact description of the invention, which will
enable others skilled in the art to which it
appertains to make and use the same.

My invention relates to the improvements
in securing or fastening devices, and refers
especially to a device for retaining keys in
place, such as used in machinery; and the
object of the invention is the production of a
simple, durable, and inexpensive device of
this character which will be thoroughly effi-
cient for the purpose intended.

With the above objects in view the inven-
tion consists in the device constructed sub-
stantially as hereinbefore illustrated, descried,
and specifically claimed.

Figure 1 represents a perspective view of
a device embodying my invention. Fig. 2 rep-
resents a vertical sectional view of the same.

Referring by letter to the drawings, in which
similar letters of reference denote corresponding
parts in both figures, A designates a
crank-shaft, encircled encasing one end of which is the
strap of the pitman or driver B, having a slot
or passage C therein.

The device is shown as applied to a crank-
shaft for operating the piston of an engine;
but it is obvious that it may be employed in
any instance where it could be effective.

D designates a gib of the ordinary con-
struction, having shoulders adapted to engage
the faces of the strap and prevent said gib
from sliding transversely to the pitman. It
also has the slanting edge, against which the
slanting edge of the key E is adapted to slide.
The narrow end of the gib is provided with
a threaded socket, into which the retaining-
screw H is adapted to pass. By means of this
retaining-screw the adjustable and removable
yoke F is fixed to the end of the gib. The
upper arm of this yoke is also provided with
a set-screw G. This set-screw has preferably
a conical point adapted to fit a correspond-
ing socket in the large end of the key E. The
screw G is also provided with a set-nut I be-
low the arm of the yoke.

The operation of my device is, briefly stated,
as follows: The yoke is attached to the 55
gib by means of the retaining-screw H, and
when the key has been driven in as far as
desired the screw G is turned down to hold
the key as adjusted. To prevent the set-
screw G from becoming loose, the set-nut I is 60
screwed up against the lower face of the yoke.

When it is desired to remove the key, the
retaining-screw H may be loosened slightly and the yoke swung around out of
the way, or it may be entirely removed, as 65
desired. When the parts of my device have
once been adjusted, the set-nut renders it
practically impossible for the parts to get
loose and out of place.

It will be seen that my device is perfectly 70
adapted to be used with gibbs and keys al-
ready in use by simply providing the gib with
a threaded socket for the insertion of the re-
taining-screw.

Another advantage of my invention is that 75
it can be so made as to occupy very little
room to adapt it to the confined limits in
which it is often desirable to have pitmen
and similar parts of machinery operate. By
fastening the yoke to the gib itself I do not 80
weaken the strap or pitman by bolt-holes.

Having thus described my invention, I claim
and desire to secure by Letters Patent of the
United States—

The combination, in a securing or fasten-
ing device, of the gib D, key C, yoke F, re-
taining-screw H, set-screw G, and set-nut I, all
constructed and combined to co-operate sub-
stantially as described, and adapted to be
used in pitman and similar connections, sub-
stantially as set forth.

In testimony that I claim the foregoing as
my own I have hereunto affixed my signature
in presence of two witnesses.

THOMAS A. BRISTOW.

Witnesses:

J. N. DRAKE,
J. L. WATRAN.