

(No Model.)

C. H. THOMPSON.
Horse Detacher.

No. 232,571.

Patented Sept. 21, 1880.

Fig. 1.

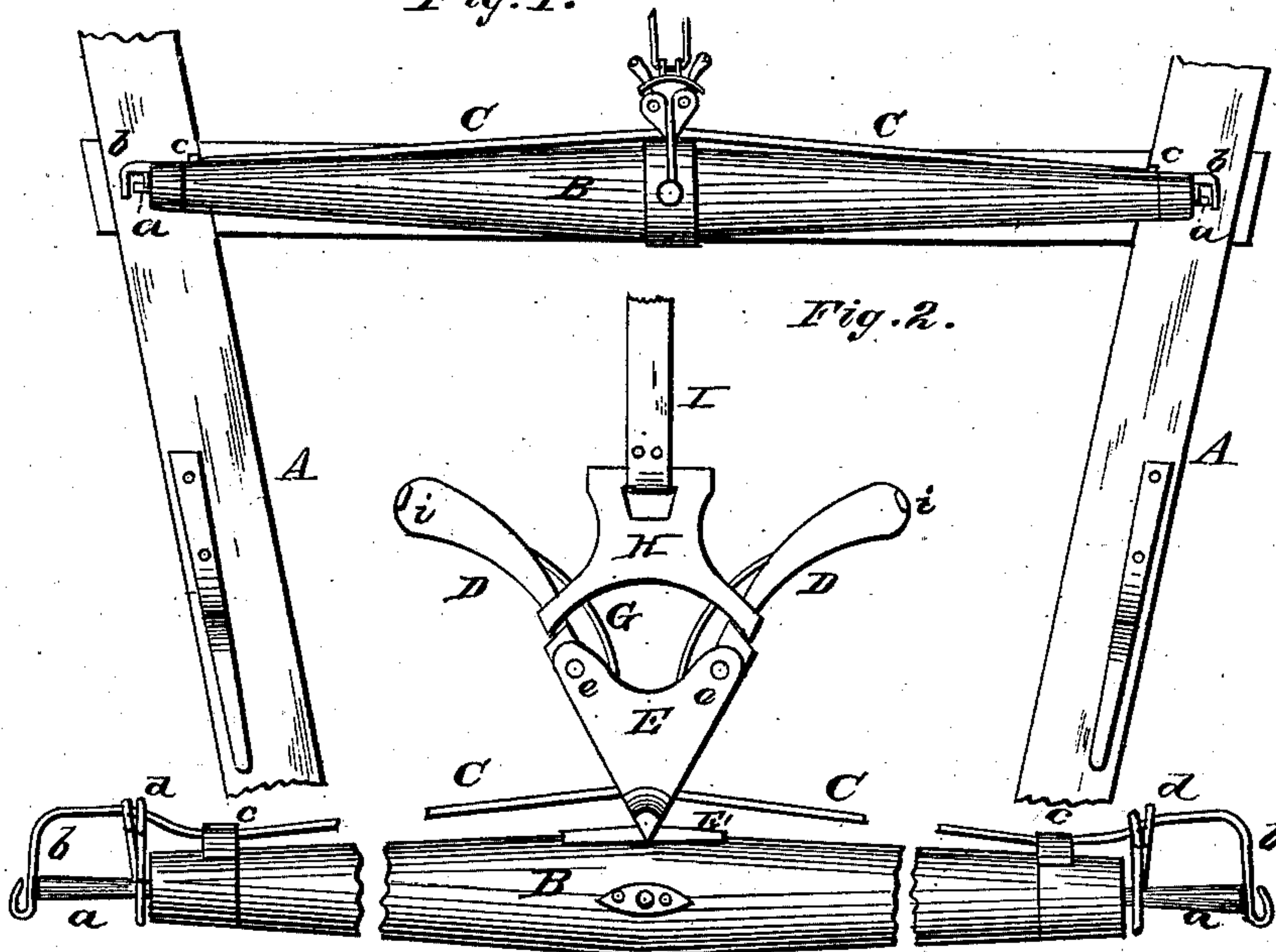


Fig. 2.

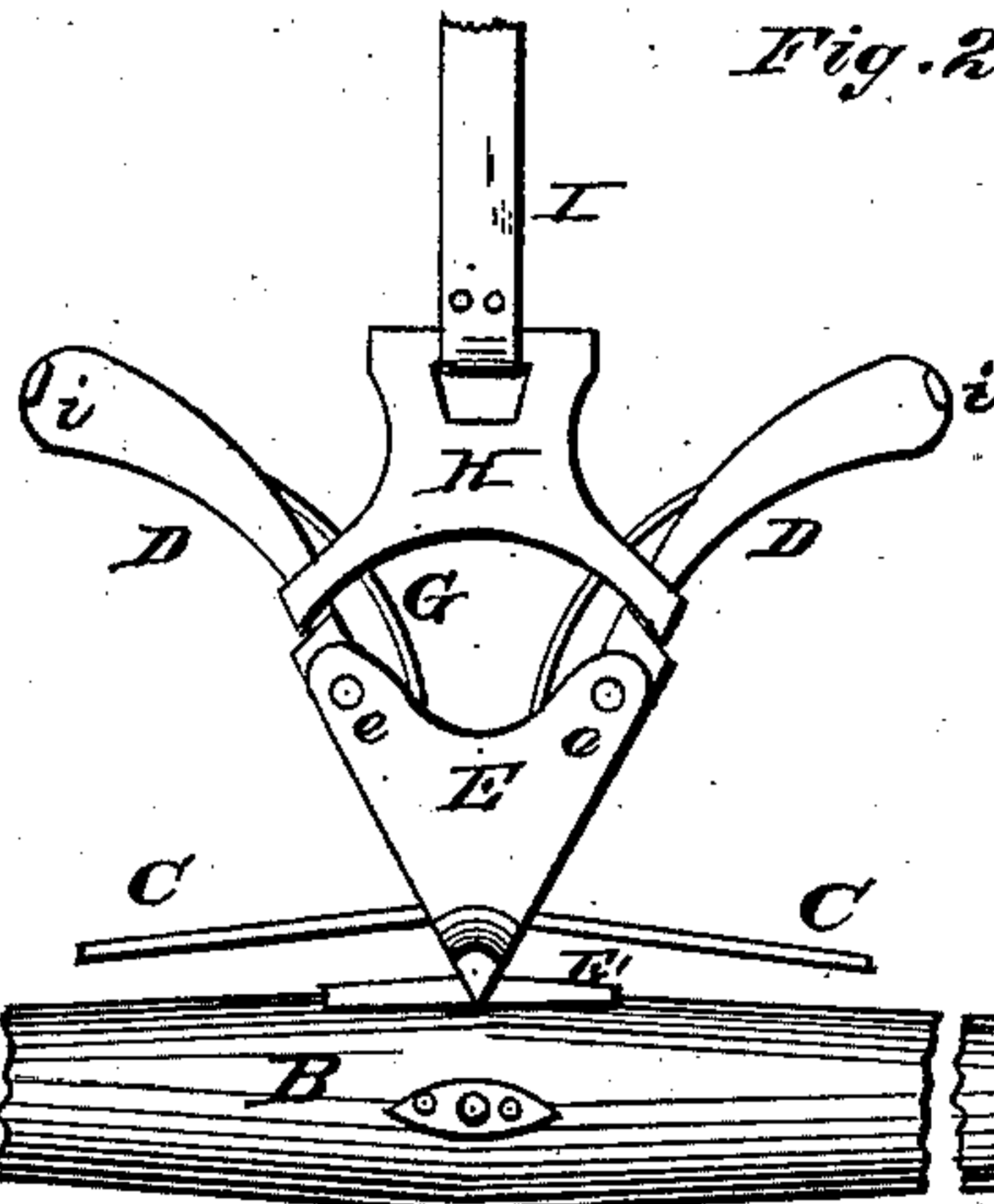


Fig. 3.

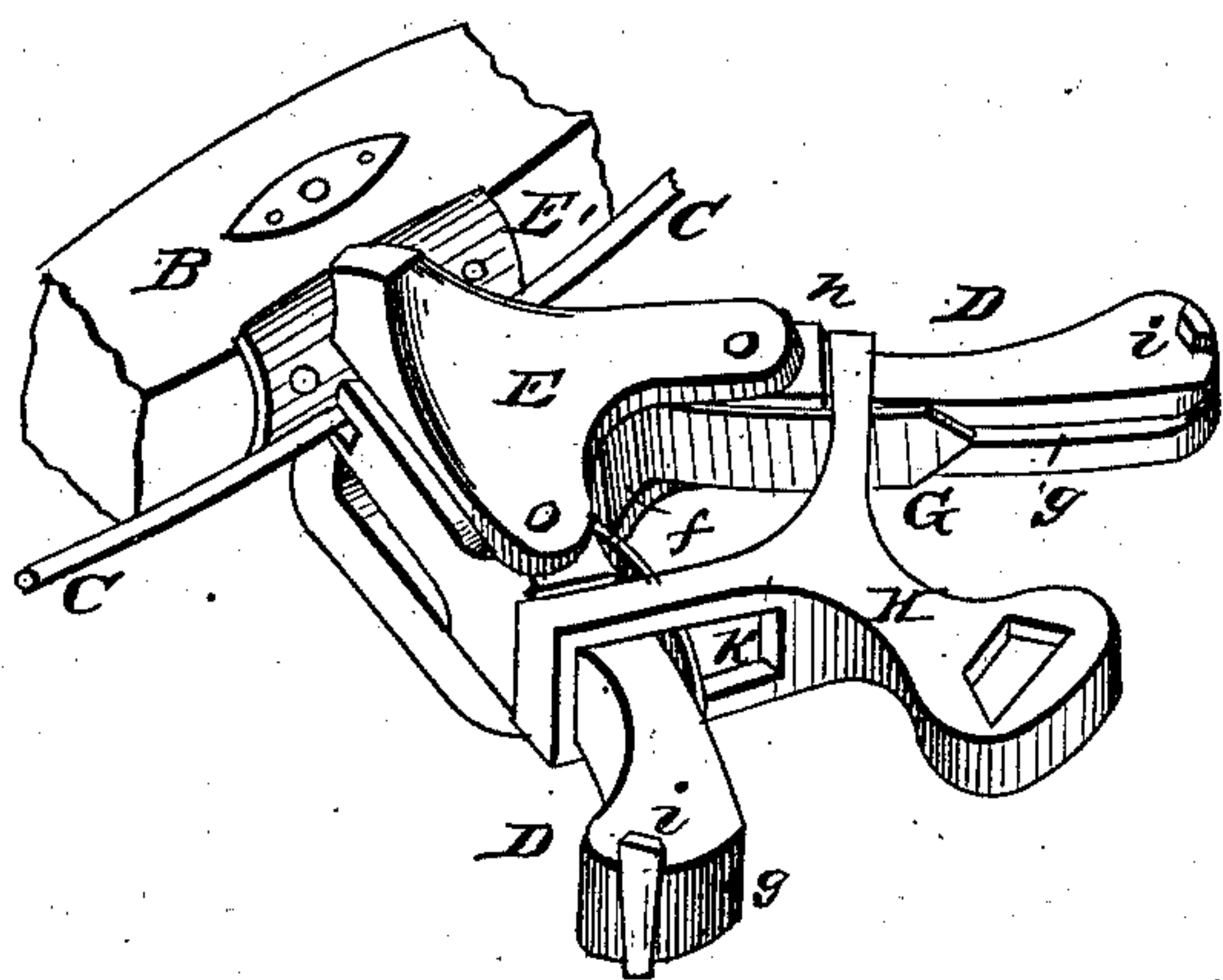
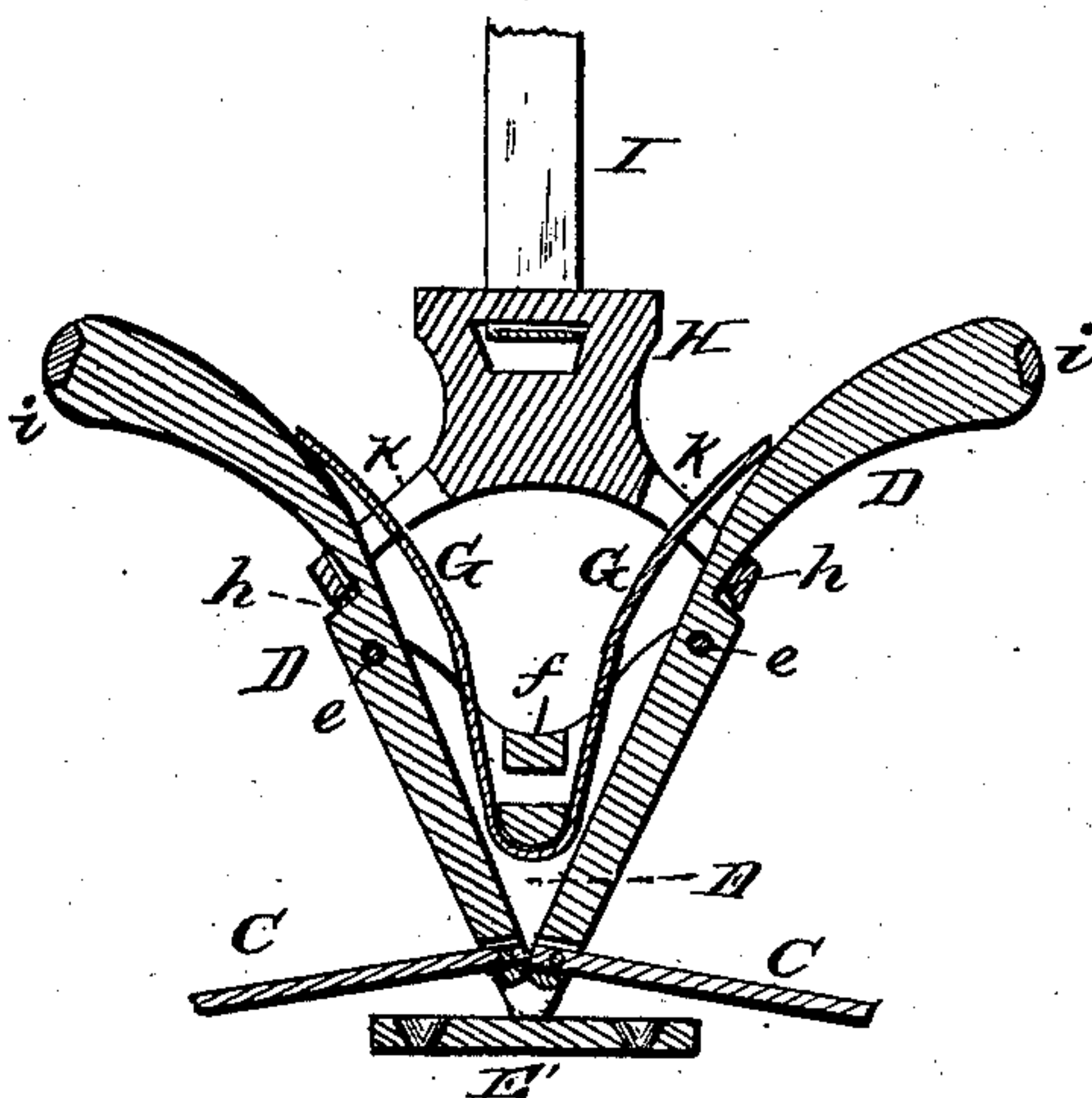


Fig. 4.



Witnesses:

P. C. Dietrich.
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UNITED STATES PATENT OFFICE.

CYRUS H. THOMPSON, OF MOUNT PLEASANT, MICHIGAN.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 232,571, dated September 21, 1880.

Application filed March 19, 1880. (No model.)

To all whom it may concern:

Be it known that I, CYRUS H. THOMPSON, of Mount Pleasant, in the county of Isabella and State of Michigan, have invented certain new and useful Improvements in Horse-De-
tachers; and I do hereby declare that the follow-
ing 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, reference being had to the accompany-
ing drawings, which form a part of this speci-
fication, and in which—

Figure 1 is a top or plan view of the thills and whiffletree of a vehicle embodying my in-
vention. Fig. 2 is an enlarged detail view of
the whiffletree. Fig. 3 is a perspective view
of the detaching-levers with their operating-
yoke and spring, and Fig. 4 is a horizontal
section through the same.

Similar letters of reference indicate corre-
sponding parts in all the figures.

My invention has relation to certain im-
provements in horse-detaching devices for ve-
hicles, to provide for instantaneously freeing
a runaway horse from the whiffletree and thills
to which he is attached; and it consists in the
construction and combination of parts of the
device for unhitching the tugs or traces from
the ends of the whiffletree, substantially as
hereinafter more fully set forth.

In the drawings hereto annexed, A A are the
thills of a vehicle, and B is the whiffletree. Each
of the two ends of the latter has a projecting
pin or bolt, *a a*, which is inserted through eyes
in the traces, (not shown in the drawings,) 35
which are prevented from slipping off by hooks
b b, formed upon the outer ends of rods C C,
that work through keepers *c c*, and are pro-
vided with projecting loops *d d*, parallel to the
hooked or bent ends *b b*, through which said
loops the bolts *a a* are inserted. The outer end
of each of the bolts or pins *a* is preferably re-
cessed transversely to receive the hooked end
or arm *b*.

The inner ends of the rods C C are pivoted
in short levers D D, which have their fulcrums
at *e e* in a heart-shaped box or casing, E, which
is cast with a face-plate, E', by means of which
it is fastened (by screws or otherwise) upon the
back part of the whiffletree. This box or cas-

ing E is cast with a stud or cross-piece, *f*, across
which is placed a spring, G, the ends of which,
projecting out of the casing, are pointed to fit
in triangular grooves or channels *g g* made in
the inner sides of the levers D D, facing each
other. Each of said levers D is made with a
shoulder, *h*, from which its projecting outer
end gradually increases in thickness, and is
slightly curved outwardly, its extreme end
being made with a vertical dovetailed slot
tapering downwardly, through which is in-
serted a dovetailed pin, *i*, said pins *i i* serving
as stops for the sliding slotted yoke H, through
the end slots, *k k*, of which levers D D are in-
serted. The projecting middle part of the
yoke is slotted for the insertion of a strap or
chain, I, which reaches up into the vehicle
within convenient reach of the driver.

To release both traces simultaneously from
the whiffletree, all that is necessary is to pull
strap I, which draws the yoke out over the
levers, causing their inner ends to spread, and
thereby force the pivoted rods C C outward
from the middle of the whiffletree, so that the
looped arms *d d* will shove the traces off of
the end pins, *a a*, leaving the horse at liberty
to run without dragging the vehicle after him.

By this device runaway accidents are abso-
lutely avoided, and they are so simple in con-
struction that they can be placed upon any ve-
hicle at a small cost.

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

The combination, with the whiffletree A,
provided with the end pins or bolts, *a a*, keepers
or guide-sleeves *c c*, and casing E E', of the
slide-rods C C, having arms *b d*, diverging
levers D D, provided with the grooves *g g*,
shoulders *h h*, and stops *i i*, bent spring G, and
yoke H, provided with a strap or chain, I, for
operating it, substantially as and for the pur-
pose herein shown and set forth.

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

CYRUS HEATH THOMPSON.

Witnesses:

JAMES W. LONG,
J. B. WALLACE.