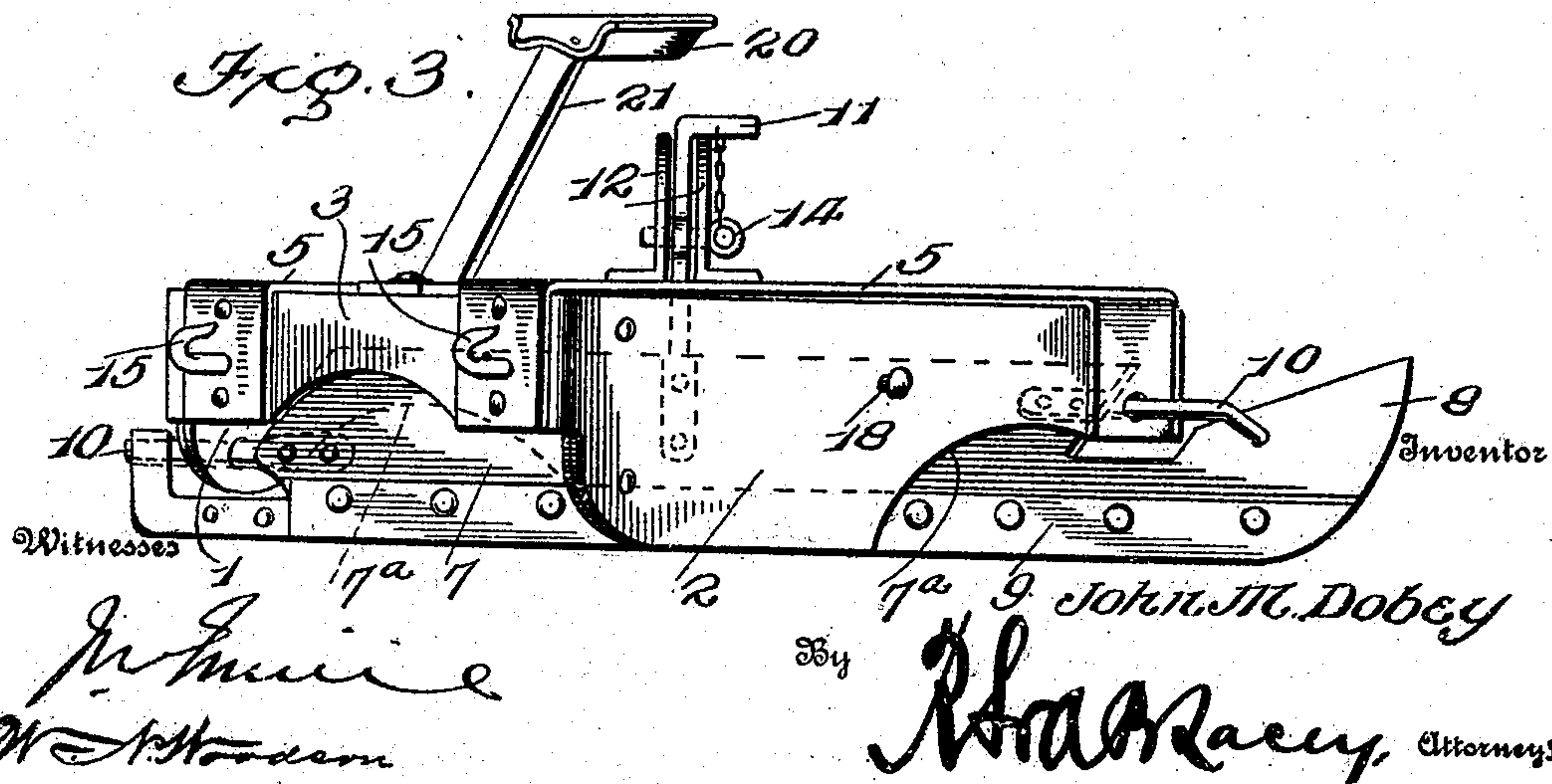
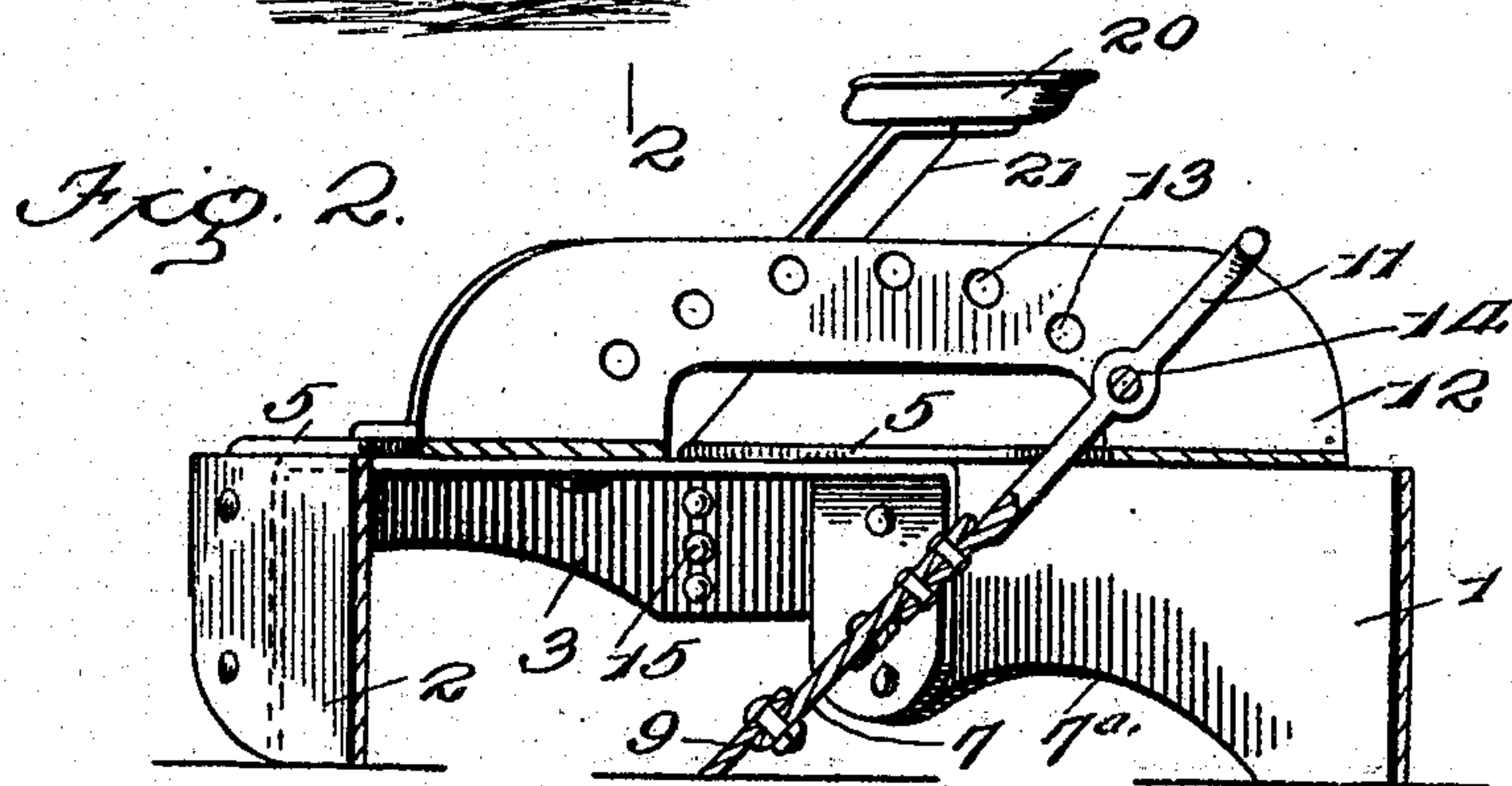
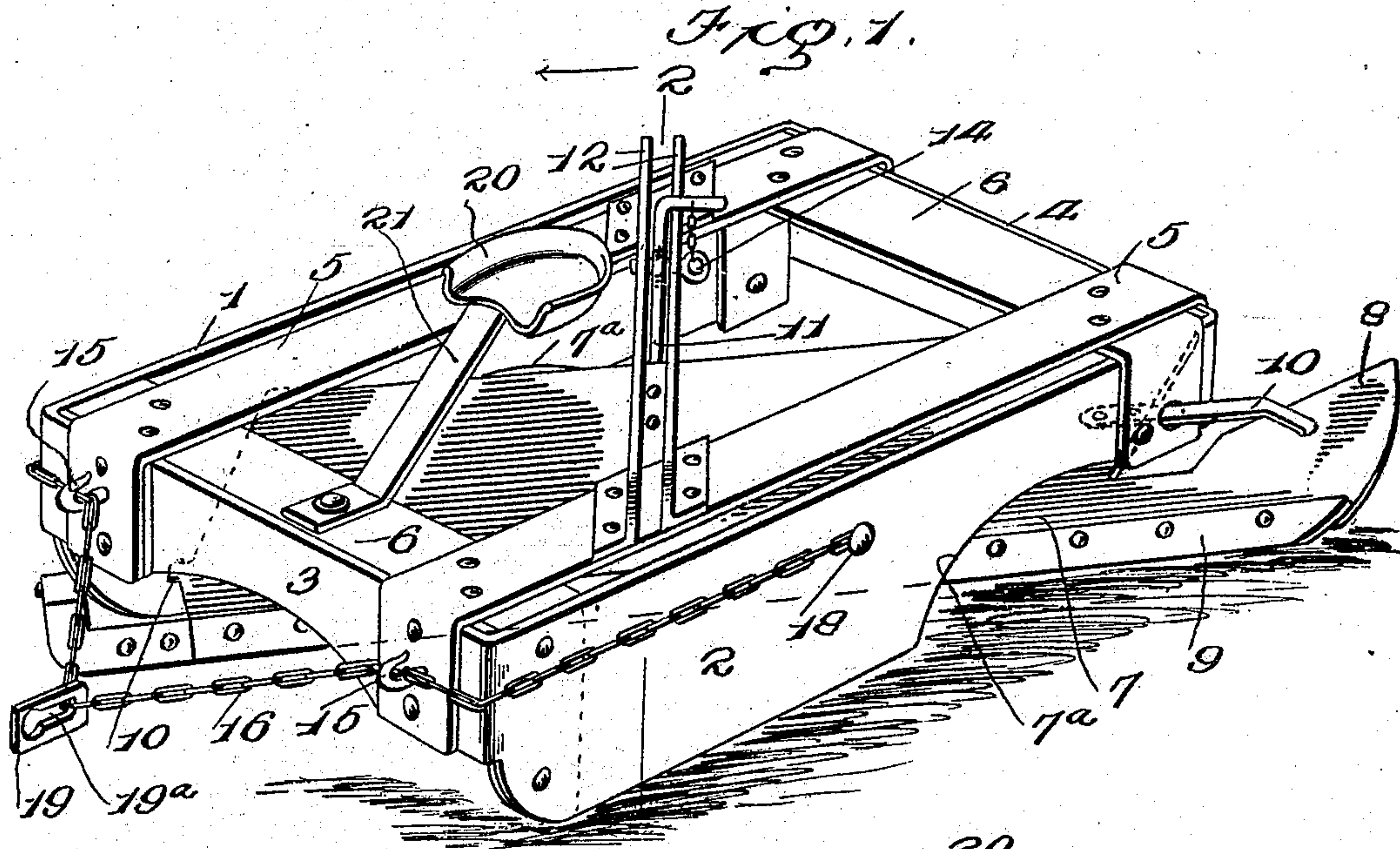


908,078.

J. M. DOBEY.
ROAD SCRAPER.
APPLICATION FILED APR. 15, 1908.

Patented Dec. 29, 1908.
2 SHEETS—SHEET 1.

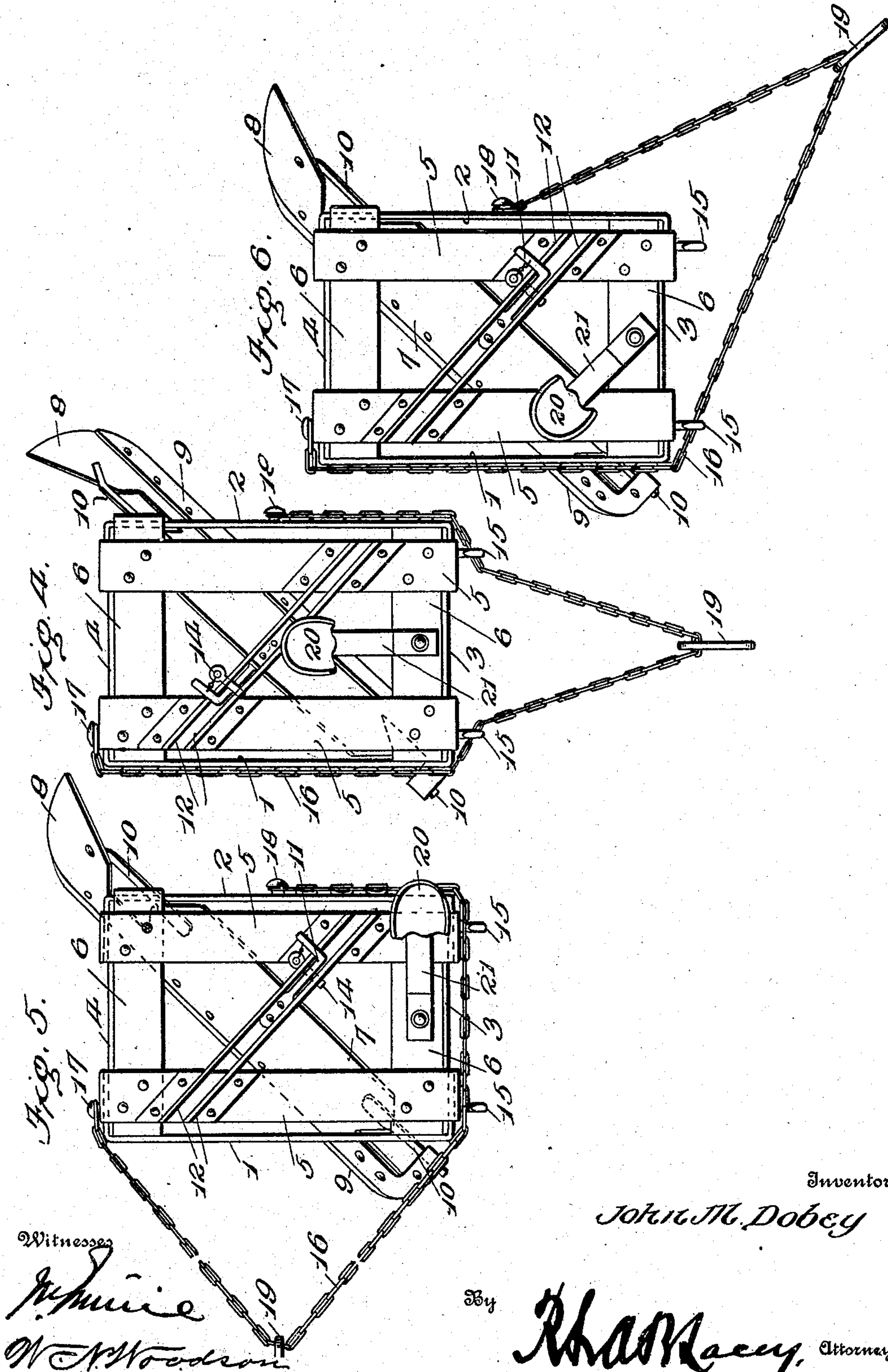


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908,078.



Inventor

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By

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Witnesses

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UNITED STATES PATENT OFFICE.

JOHN M. DOBEY, OF TIMEWELL, ILLINOIS.

ROAD-SCRAPER.

No. 908,078.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed April 15, 1908. Serial No. 427,280.

To all whom it may concern:

Be it known that I, JOHN M. DOBEY, citizen of the United States, residing at Time-
well, in the county of Brown and State of
Illinois, have invented certain new and use-
ful Improvements in Road-Scrapers, of
which the following is a specification.

The present invention relates to an im-
proved road scraper embodying a novel con-
struction which admits of the line of draft
being readily adjusted with respect to the
inclination of the scraping blade so as to en-
able the scraper to be effectively employed
for various purposes.

The object of the invention is the provision
of a road scraper of this character which is
simple and durable in its construction and
in which the various parts can be quickly
adjusted as required and securely locked in
an adjusted position.

For a full understanding of the invention
and the merits thereof and also to acquire a
knowledge of the details of construction and
the means for effecting the result, reference
is to be had to the following description and
accompanying drawings, in which:

Figure 1 is a perspective view of a road
scraper embodying the invention. Fig. 2 is
a sectional view through the same on the line
2—2 of Fig. 1. Fig. 3 is a corner view of the
scraper. Fig. 4 is a plan view, the draft
cable being properly positioned for moving the
scraper in the direction of its longitudinal
axis. Fig. 5 is a similar view with the draft
cable properly positioned for moving the
scraper in the direction of its transverse axis.
Fig. 6 is a similar view with the draft cable
properly positioned so that the line of draft
is disposed at right angles to the scraping
blade.

Corresponding and like parts are referred
to in the following description and indicated
in all the views of the drawings by the same
reference characters.

The frame of the road scraper has an ap-
proximately rectangular formation and com-
prises the parallel and oppositely disposed
sides 1 and 2 having their extremities ex-
tended inwardly and secured to the ends 3
and 4, the end 3 being located at the front
of the frame and the end 4 at the rear of the
frame. Extending across the top of the
frame is a pair of longitudinal bars 5 which
are located adjacent the respective sides 1
and 2 and have their extremities secured to
the ends 3 and 4 of the frame. In a some-

what similar manner transverse bars 6 ex-
tend across the top of the frame at the front
and rear thereof and are secured to the lon-
gitudinal bars 5 and have their extremities
extended downwardly and secured to the
sides 1 and 2. A diagonally disposed scrap-
ing blade 7 is pivoted between the sides 1
and 2 so as to swing about a horizontal axis,
the rear end of the blade extending beyond
the sides of the frame and being formed with
a wing 8 which serves to deflect the material
gathered by the scraper to one side of the
device. A scraping edge 9 is bolted or other-
wise detachably applied to the scraping
blade 7 so as to be readily replaced should it
become worn. In the present instance the
scraping blade is shown as provided toward
its opposite ends with pintles 10 passing
loosely through pivot openings in the for-
ward portion of the side 1 and the rear por-
tion of the side 2 respectively, the said sides
being cut away at 7^a to form a clearance for
the movements of the blade. Projecting up-
wardly from the middle portion of the scrap-
ing blade 7 is a lever 11 which is loosely re-
ceived between a pair of plates 12 secured to
the top of the frame and diagonally disposed
with respect thereto. These plates 12 have
corresponding openings 13 formed therein
and a pin 14 is designed to be placed within
any selected pair of the openings to lock the
lever 11 in an adjusted position and hold the
scraping blade at the desired inclination.

The invention also contemplates novel
means for applying the draft to the frame in
such a manner that the line of draft can be
readily adjusted with respect to the angle of
the scraping blade. A pair of draft hooks 15
project forwardly from opposite sides of the
front 3 of the frame and these draft hooks co-
operate with a flexible cable or chain 16 hav-
ing one end thereof secured at 17 to one of
the rear corners of the frame at the intersec-
tion of the side 1 and end 4, while the opposite
end is secured at 18 to an intermediate point
in the length of the opposite side 2. The
draft is applied to the chain 16 through the
medium of a plate 19 having a key hole slot
19^a therein, the said plate having an inter-
locking connection with the chain when the
latter member is drawn into the contracted
end of the slot 19^a and being adapted to be
moved longitudinally upon the chain when
the said chain is moved into the enlarged end
of the slot. Should it be desired to apply
the draft to the front end of the frame as

when the device is to be employed for cleaning out a ditch, the draft cable or chain is drawn along the opposite sides 1 and 2 of the frame and caused to engage the draft hooks

5 15. The plate 19 can then be adjusted to an intermediate point upon that portion of the chain between the draft hooks 15 so that the line of draft will coincide with the longitudinal axis of the frame. However, should it
10 be desired to utilize the device as a road scraper for deflecting dirt to the center of the road the draft will be applied to one side thereof, the chain 16 being drawn along the side 2 and across the front 3 and the plate 19
15 adjusted to an intermediate point upon that portion of the chain adjacent the side 1 so that the line of draft will coincide with the minor or transverse axis of the frame. In either instance it will be obvious that the
20 inclination of the scraping blade may be varied as required according to the nature of the soil or the depth to which it is desired to loosen the soil.

Provision is also made for using the device
25 as a drag for smoothing the surface of the road and when thus employed the cable or chain 16 is drawn along the side 1 and caused to engage the draft hook 15 adjacent the said side 1. It will be observed however that the
30 chain is disengaged from the opposite draft hook and that the plate 19 is moved to an intermediate point upon that portion of the chain between the draft hook 15 with which it is engaged and the point 18 at which it is
35 connected to the side 2. The line of draft is then at approximately right angles to the scraping blade and the lever 11 can be swung forwardly so that the blade will be inclined rearwardly and operate to smooth the sur-
40 face of the road. The seat 20 is carried by a spring bar 21 having the lower end thereof pivotally connected to one of the transverse bars 6 at the top of the frame so that the seat can be swung about a vertical axis and ad-
45 justed as required by the manner of applying the draft.

From the foregoing description it will be obvious that the improved road scraper is susceptible of being employed for a wide
50 range of usage owing to the fact that the angle between the line of draft and the road scraper can be varied and the scraping blade can be locked at any desired inclination.

Having thus described the invention, what
55 is claimed as new is:

1. In a device of the character described, the combination of a frame, a scraping blade mounted upon the frame, draft members carried by the frame, and a cable having the
60 extremities thereof connected to the frame, the said cable being designed to detachably engage the draft members to permit adjustment of the line of draft with respect to the scraping blade.

2. In a device of the character described, 65 the combination of a frame, a scraping blade mounted upon the frame, a pair of draft members projecting from the front of the frame, and a cable having one end thereof secured to one of the rear corners of the 70 frame while the opposite end is secured to an intermediate point of the opposite side of the frame, the said cable detachably engaging the draft members to permit the line of draft to be adjusted with respect to the scraping 75 blade.

3. In a device of the character described, the combination of a frame, a diagonal scraping blade mounted upon the frame, means for adjusting the inclination of the 80 scraping blade, draft members carried by the frame, and a cable having the extremities thereof connected to the frame, the said cable being designed to detachably engage the draft members to permit adjustment of 85 the line of draft with respect to the scraping blade.

4. In a device of the character described, the combination of a rectangular frame, a diagonally disposed scraping blade mounted 90 upon the frame, a cable having the extremities thereof permanently connected to the frame, and draft members carried by the frame, the said draft members being designed to detachably engage the cable to 95 permit of the draft being applied either to a side or an end of the frame.

5. In a device of the character described, the combination of a frame formed with spaced sides, a diagonal scraping blade jour- 100 naled between the sides so as to swing about a horizontal axis, the sides being cut away to provide a clearance for the blade, a lever projecting upwardly from the scraping blade, plates secured to the frame and cooperating 105 with the lever to hold the scraping blade in an adjusted position, and means for applying draft to the frame.

6. In a device of the character described, the combination of a frame, a diagonal 110 scraping blade pivotally mounted upon the frame, a lever projecting upwardly from the scraping blade, means carried by the frame and cooperating with the lever to lock the scraping blade in an adjusted position, draft 115 members projecting from the frame, and a cable having opposite ends thereof secured to the frame and cooperating with the draft members to permit of the direction of the line of draft being adjusted with respect to 120 the scraping blade.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN M. DOBEY. [L. s.]

Witnesses:

G. W. GREEN,
DENNIS F. CRONIN.