

(No Model.)

2 Sheets—Sheet 1.

P. ARRIARAN.
APPARATUS FOR STOPPING RUNAWAY HORSES.

No. 555,356.

Patented Feb. 25, 1896.

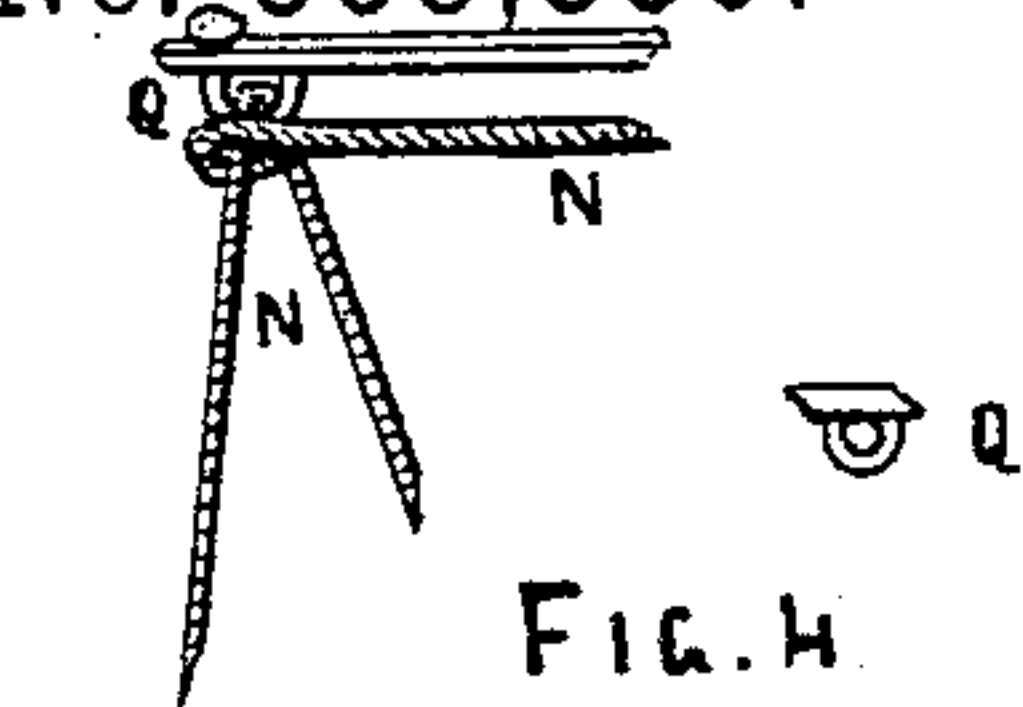


FIG. 4

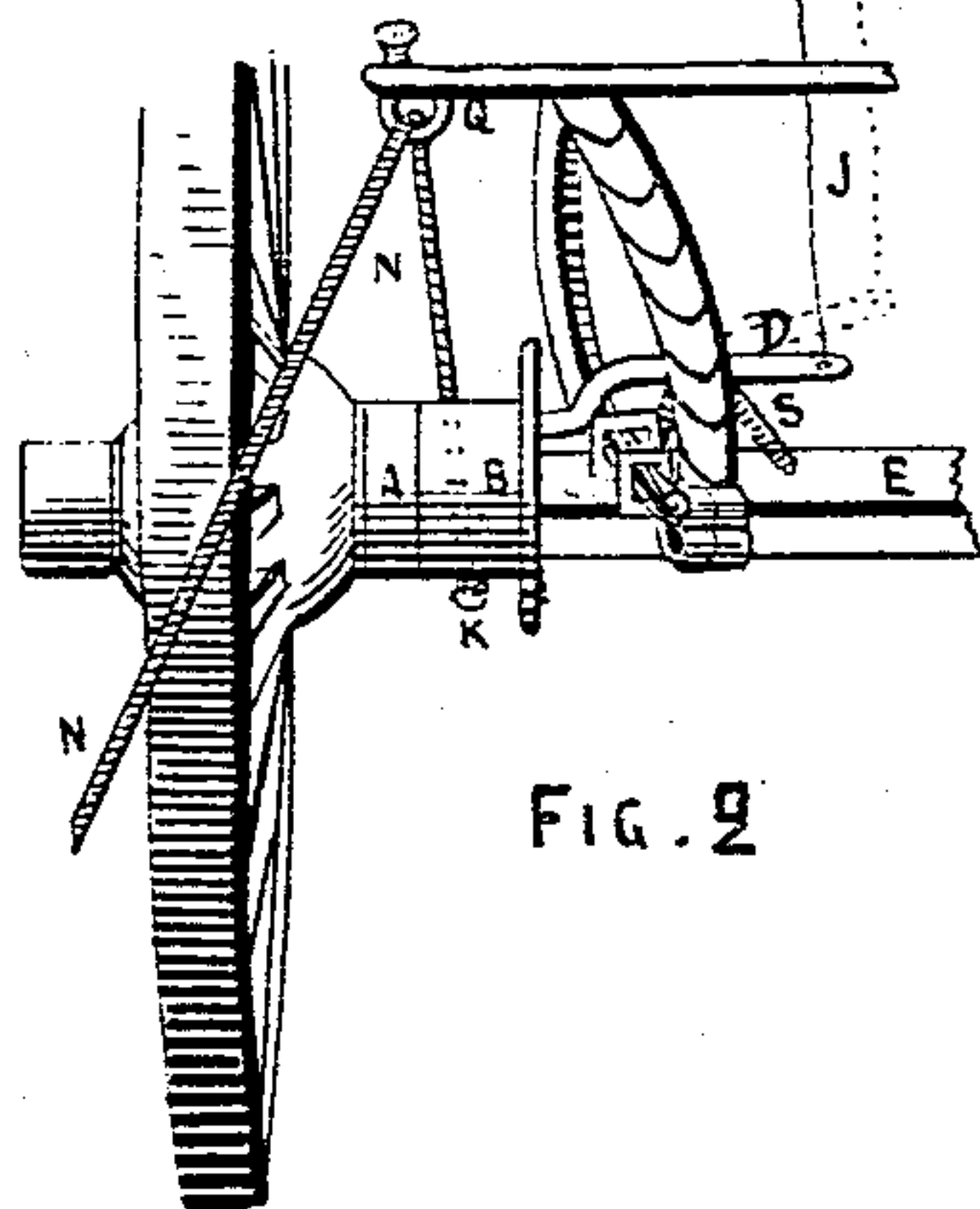


FIG. 2

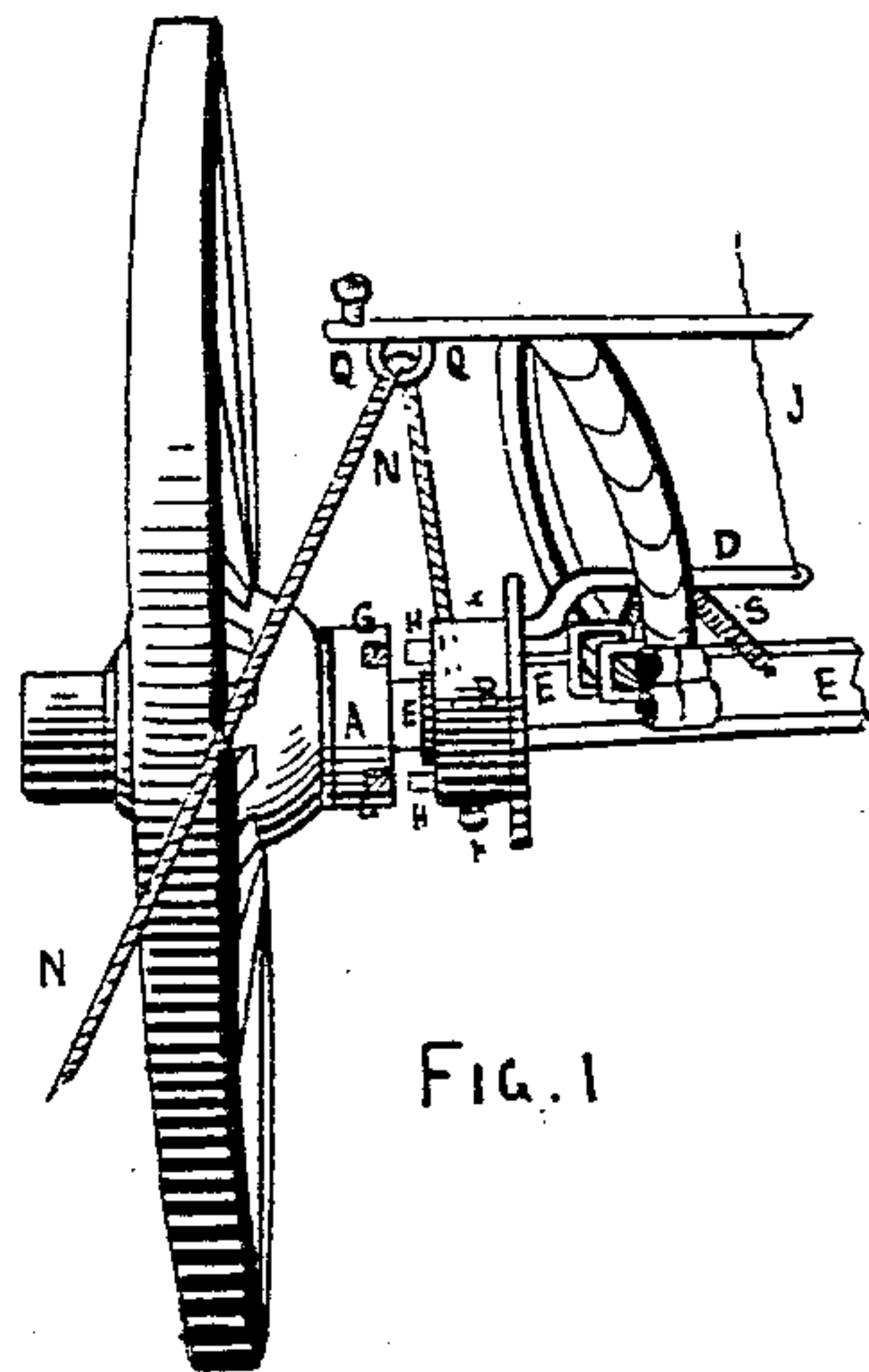


FIG. 1

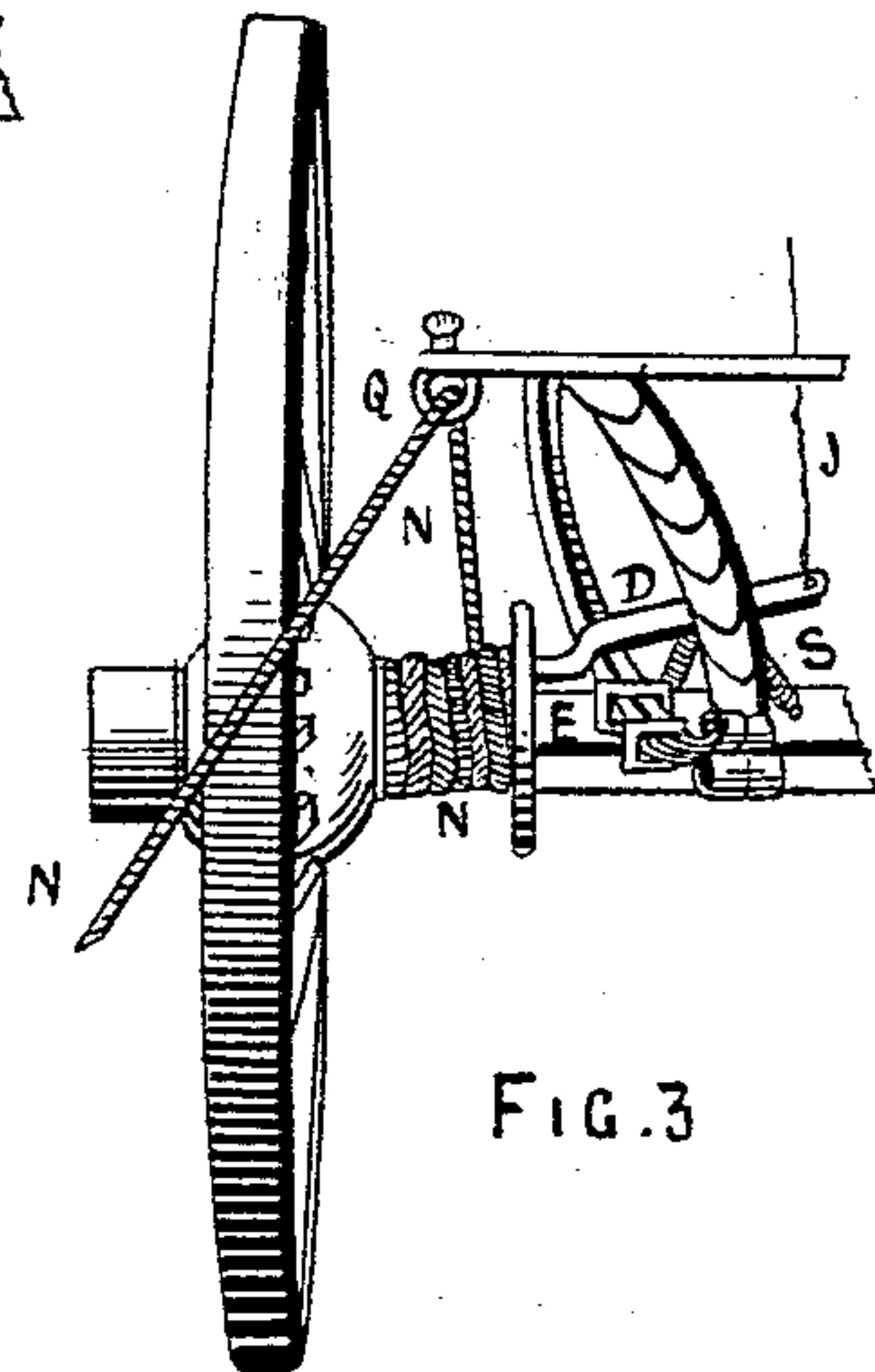


FIG. 3

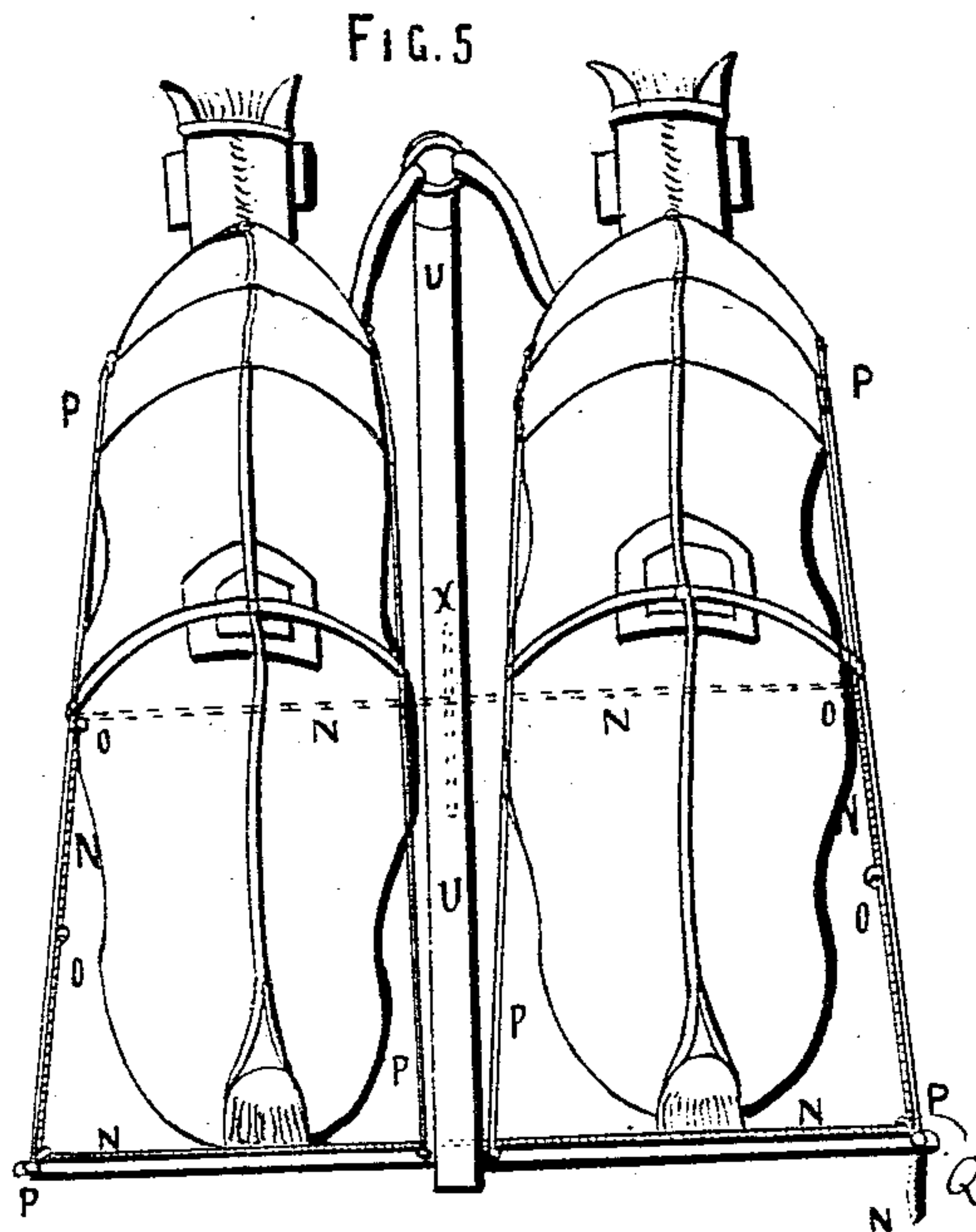


FIG. 5

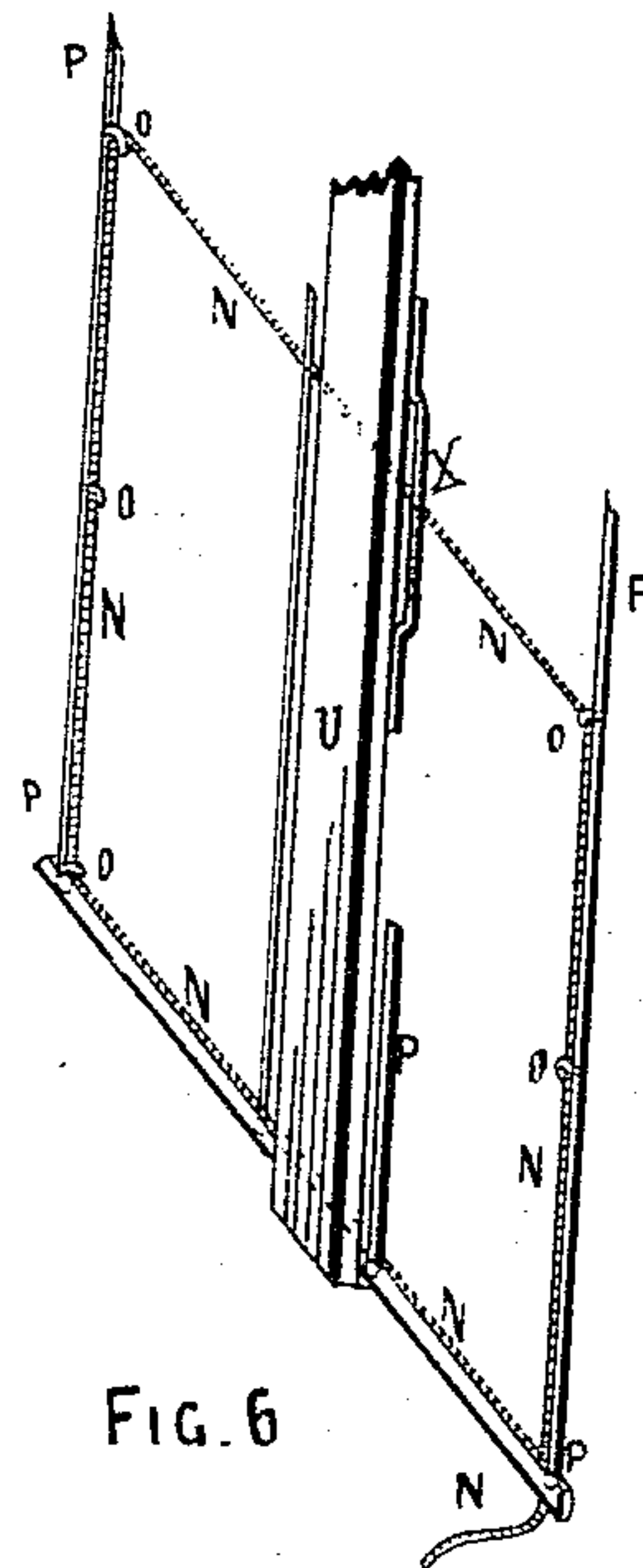


FIG. 6

Witnesses:
E. B. Bolton
H. van Oldenice

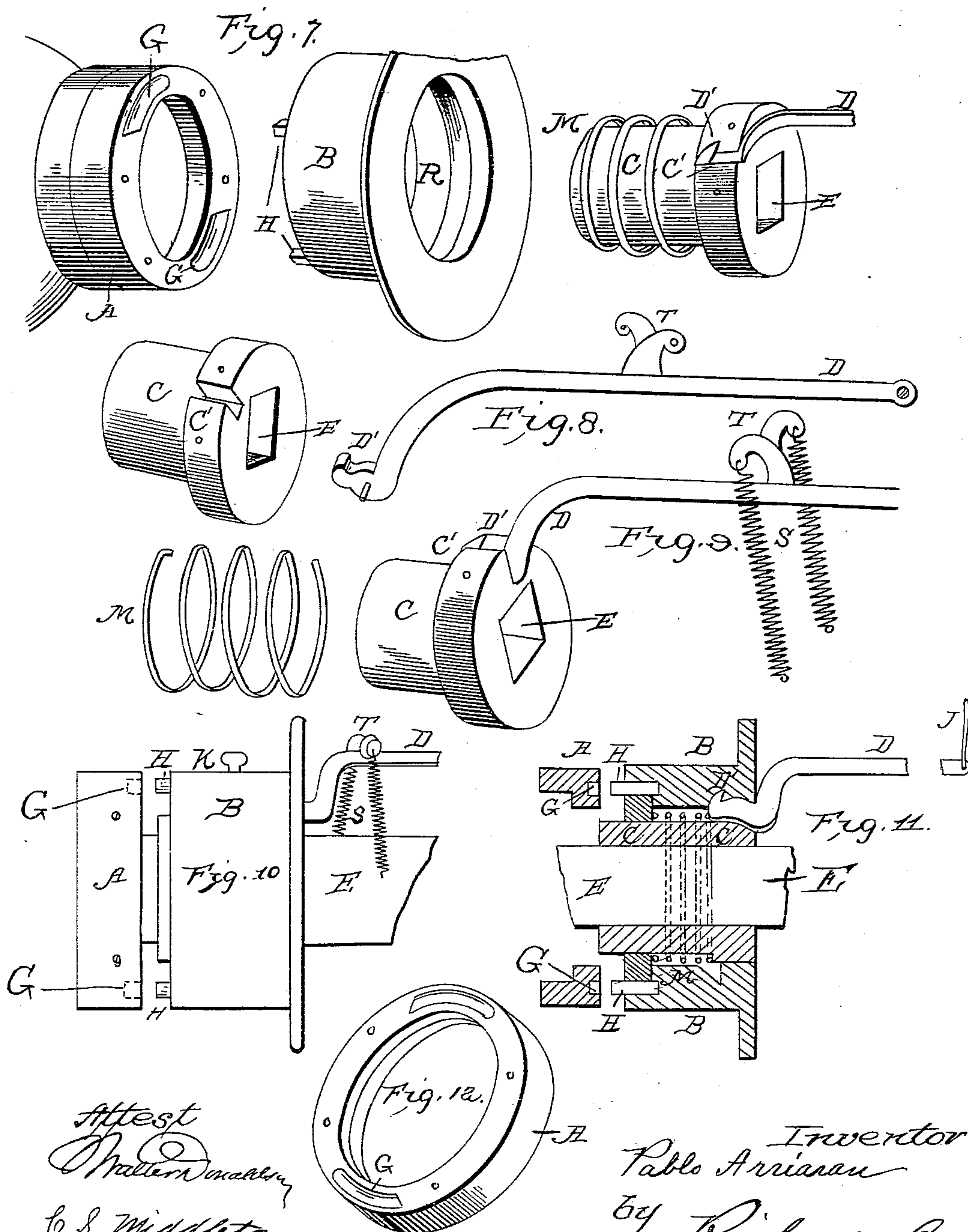
Inventor
Pablo Arriaran
By *[Signature]*
his Attorneys

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UNITED STATES PATENT OFFICE.

PABLO ARRIARAN, OF BUENOS AYRES, ARGENTINE REPUBLIC.

APPARATUS FOR STOPPING RUNAWAY HORSES.

SPECIFICATION forming part of Letters Patent No. 555,356, dated February 25, 1896.

Application filed October 2, 1895. Serial No. 564,469. (No model.)

To all whom it may concern:

Be it known that I, PABLO ARRIARAN, manufacturer, a subject of the King of Spain, residing at Buenos Ayres, Argentine Republic, have invented Apparatus for Stopping Runaway Horses, of which the following is a specification.

In the accompanying drawings, Figure 1 shows the right fore wheel of a carriage provided with the trammel in its normal position of rest, the boxes being separated. Fig. 2 shows the apparatus ready for operation, the projections having penetrated the recesses and the boxes being united. Fig. 3 shows the boxes united, part of the strap being rolled and ready to stop the horses. Fig. 4 is the lace or running knot formed by the strap opposite the ring fixed under the bar of the carriage. Fig. 5 shows the arrangement of the trammel applied to a carriage drawn by two horses. Fig. 6 shows the same arrangement without horses. Fig. 7 shows separately the three main parts by which the apparatus is operated. Fig. 8 shows the click or detent and the central piece to which the click is attached. Fig. 9 shows the central piece with its click and springs. Fig. 10 is a reproduction of Fig. 1 on a larger scale. Fig. 11 is a longitudinal section of Fig. 1. Fig. 12 is a separate view of the box provided with recesses.

In all the figures, A is the fixed box placed upon the inside nave of the right fore wheel, and G are the recesses.

B is the rotary box placed at the end of the axle next the end of the hub A. The two points or projections H of the box penetrate the recesses G as the tenons of a mortise.

The box B encircles a central piece, C, fitted to the axle, and a spring M is interposed between the piece C and the outer end of the box, the tendency being to force the box out. A lever D, pivoted to the piece C at C', has a tooth D' entering a groove R in the box, and when engaging said groove the tooth holds the box B out of engagement with the recessed hub. Two springs S engage projections T on the lever D and support the same. A string J operates the lever D from the driver's seat.

N is the clogging-strap forming a lace (or running knot) at the point Q and having one

of its ends attached to the button K of the box B.

O O are the rubbers fixed upon the traces for holding the trammel at a suitable height and intended to rupture as soon as the length of the strap N is reduced to clasp the horses' legs.

V is the pole which carries below a support X, through which the strap N passes.

Q is the ring fixed to the bar for supporting and upholding the trammel.

When at rest the apparatus is in the position shown in Fig. 1. The strap is passed through the lace formed by the other extremity through the guiding-ring Q, and is fixed at the point K and is ready to operate. The occupant of the carriage or the driver pulls the string J and compels the tooth of the lever D to release the box B. The spring M forces the box B forward and forces the points H to penetrate the recesses G, uniting the two boxes, Fig. 2. The strap is then carried along by the box B, breaks the rubber bands O O, and commences to roll up around the box, as shown in Fig. 3. As the rotary motion continues the entire strap rolls up around the united boxes and clogs the horses, which cannot continue running and generally fall down, removing every danger.

It will be seen in Fig. 5 that the sides of the trammel form a rectangle, including therein the horses' hind legs. The rectangle is maintained at the corners by the rubbers O, which may be easily broken, and also by rubbers intermediate of said corners. As clearly shown in Fig. 4, there is a slip-noose at Q, and this is located at the corner of the rectangle in Fig. 5 at the point Q, and from this noose the main part of the cord extends to the drum, so that when this main part is drawn upon the tendency will be to reduce the extent of the rectangle by drawing the sides thereof together. The rubbers O will break under this strain, and the cord continuing to pull through the slip-knot at Q the noose or trammel will be reduced to such an extent as to bear against the hind legs of the horses and thus cause them to stop. While the noose is being reduced in extent it will be held up by the support X on the under side of the pole.

I claim—

1. In combination, the box G secured to the wheel, the box B movable longitudinally of the axle and having teeth to engage the box G, the piece C within the box having a flange at one end, a spring within the box B and encircling the piece C to bear on the flange at one end and to press upon the box B at its other end and a catch-lever D pivoted to the flange of the piece C, the said box having an interior groove to be engaged by the catch, substantially as described.

2. In combination, the trammel comprising the slip-noose N the sides of which extend about the horses' legs, means for holding the noose-trammel distended, adapted to be ruptured when the noose is drawn upon, the clutch including a drum at the wheel, means for operating the clutch, the cord of the tram-

mel or slip-noose extending to said drum to be wound thereon, substantially as described. 20

3. In combination, the traces, the trammel comprising the slip-noose N, the sides of which inclose the horses' legs, the fragile rubbers O for holding the trammel distended and to the traces and the clutch and drum at the axle, the said trammel being in the form of a slip-noose with its cord extending to the drum and attached thereto, substantially as described. 25

In witness whereof I have hereunto set my hand in presence of two witnesses. 30

PABLO ARRIARAN.

Witnesses:

LUIS P. BORDES,

T. M. AIZPURI.