

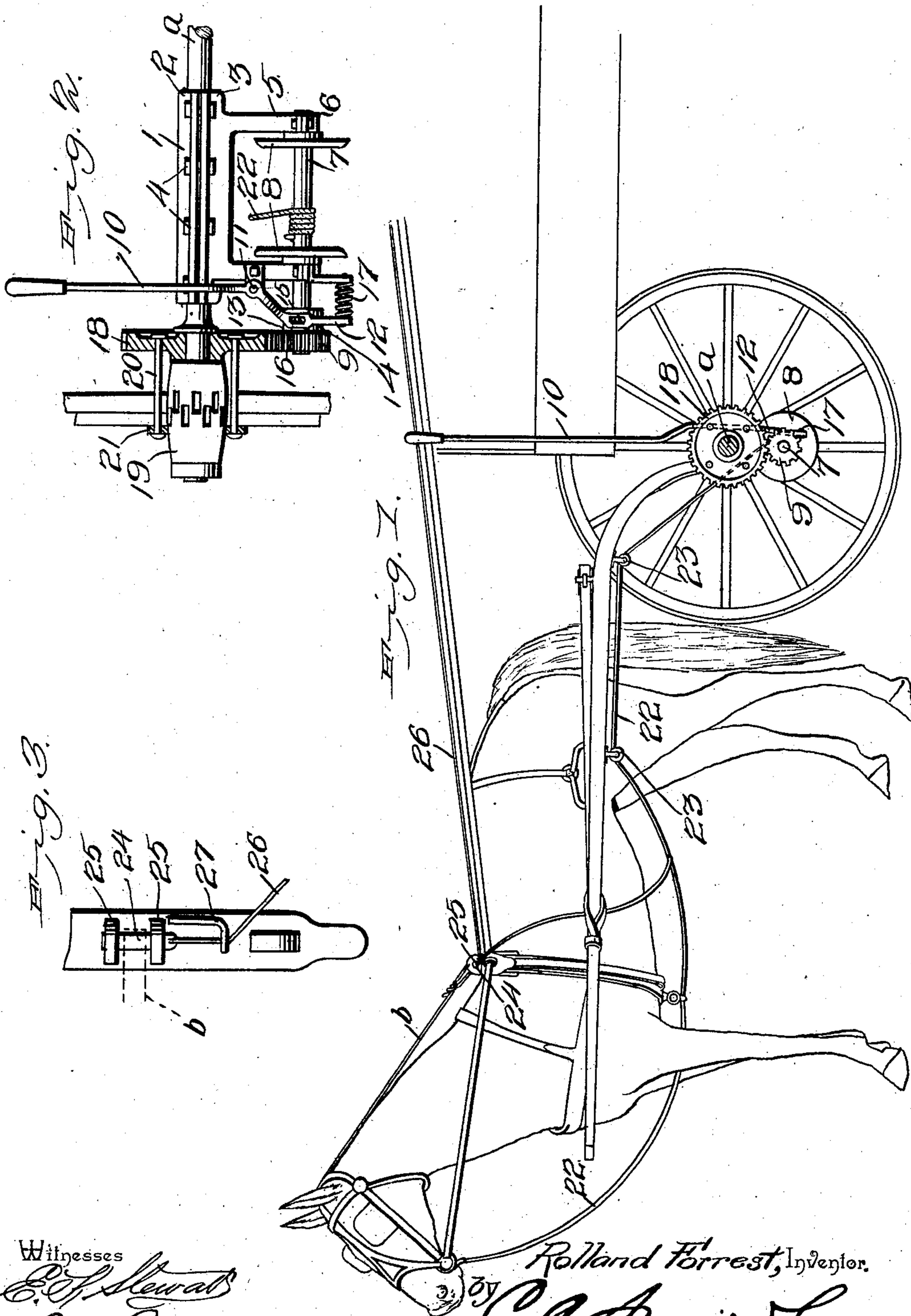
No. 712,290.

Patented Oct. 28, 1902.

R. FORREST.
HORSE CHECKING APPARATUS.

(Application filed May 3, 1902.)

(No Model.)



Witnesses

Witnesses
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UNITED STATES PATENT OFFICE.

ROLLAND FORREST, OF PHILADELPHIA, PENNSYLVANIA.

HORSE-CHECKING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 712,290, dated October 28, 1902.

Application filed May 3, 1902. Serial No. 105,849. (No model.)

To all whom it may concern:

Be it known that I, ROLLAND FORREST, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Horse-Checking Apparatus, of which the following is a specification.

My invention is an improved apparatus adapted for use on a vehicle to check and stop a runaway or unruly horse; and it consists in the peculiar construction and combination of devices hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, showing a vehicle provided with a horse-checking apparatus embodying my improvements. Fig. 2 is a detail view of my improved horse-checking apparatus, showing the same secured on a vehicle-axle and geared to one of the wheels thereof. Fig. 3 is a detail top plan view showing the means for releasing the check-line of the bridle.

In the embodiment of my invention I provide a frame 1, which is here shown as comprising an upper section 2 and a lower section 3, adapted to be bolted together, as at 4, to secure them on a vehicle-axle *a*, near one end thereof. The said frame is provided with hangers 5, having bearings 6 for the shaft 7 of a drum 8. One end of the said shaft projects beyond one side of the said frame, and on the projecting end of the said shaft is feathered a spur-gear 9, which is hence longitudinally movable on the said shaft and is revoluble therewith.

A lever 10 is fulcrumed to the frame 1 at a suitable point either as shown at 11 or by any other suitable means, and the said lever has a depending arm 12, which is connected to the gear 9 by any suitable means which will admit of the longitudinal movement of said gear on the shaft 7 by the operation of the lever 10. As here shown, the said gear is formed with an inwardly-extending collar 13, having a peripheral annular groove in which a circular strap 14 is fitted, and said strap has a laterally-projecting pin 15, which engages a slot 16 in the arm 12. A spring 17 is employed to normally move the gear 9 in-

wardly and keep the same from engaging the gear 18, which is revolved by one of the vehicle-wheels 19. As here shown, the gear 18 is disposed at the inner end of the wheel-hub, is revoluble on the spindle of the axle, and is connected by bolts 20 to a collar 21, which is fitted on the hub and bears against the outer sides of the spokes. Hence the said gear 18 may be readily attached to an ordinary vehicle-wheel without alteration of the latter, and it will be understood that the frame 1 may be also attached to an ordinary vehicle-axle without alteration of the latter, so that my improved apparatus may be readily attached to and detached from any ordinary vehicle, and no alteration of the latter is necessary in carrying my invention into effect. It will be understood that by moving the lever 10 against the tension of the spring 17 the gear 9 may be engaged with the gear 18 to cause the drum 8 to be revolved when the vehicle is in motion.

A suitable cord 22 is attached to and adapted to be wound on the drum and is here shown as engaged with direction-sheaves 23, carried by one of the vehicle-shafts, passed under the body and between the front legs of the horse, and connected to the bit, so that the said cord acts as a martingale. In the event that the horse becomes unruly and starts to run away the driver by means of the lever 10 may throw the gear 9 into engagement with the gear 18, thereby cause the drum to rotate, and hence wind in on the cord 22, and hence cause the latter to draw the horse's head downwardly until his nose is brought between his front legs and he must either stop or be thrown to the ground.

When the horse's bridle is provided with a check-line *b*, I provide the saddle of the harness with a longitudinally-movable pin 24, operating in openings in lugs 25 to engage the check-strap and normally hold the same. A cord 26 connects one end of the said pin to the cord 22 and passes through a suitable guide 27 on the harness-saddle, and it will be understood that when the checking apparatus is put into operation, as before described, the cord 22 will draw the cord 26 and cause the latter to move the pin 24 endwise to release

the check-strap *b*, and hence allow the horse's head to be pulled down by the cord 22, as before described.

Having thus described my invention, I
5 claim—

1. In apparatus of the class described, in combination with a vehicle, a gear revoluble on an axle thereof, a collar 21 and bolts 20 to connect the gear to a wheel on the axle, a
10 frame comprising an upper section and a lower section bolted together on the axle, the said lower section having hangers, a drum having its shaft journaled in bearings in the hangers, a gear on said drum-shaft, shiftable thereon
15 into and out of engagement with the wheel-gear, and a lever fulcrumed to one of the hangers and connected to said shiftable gear, substantially as described.

2. In apparatus of the class described, a
20 drum, means to gear the same to a vehicle-wheel to cause the drum to be rotated, a cord adapted to be wound on the drum, and con-

nections between the said cord and the bit and a checkrein-releasing device of a harness, whereby when the drum is revolved the check-
rein will be released and the horse's head
drawn down, substantially as described. 25

3. A vehicle having a drum, a gear revoluble with a vehicle-wheel, a shiftable gear on the drum-shaft, a lever to shift said gear into
engagement with the wheel-gear, a cord adapted to be passed between the front legs of a
horse harnessed to the vehicle and attached to the bit, guides for said cord, a checkrein-releasing device, and a connection between
the same and said cord, all adapted to operate, substantially as described. 30 35

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

ROLLAND FORREST.

Witnesses:

WILLIAM BRENNAN,
CHAS. FEIL.