

(No Model.)

J. BENEDIKT & I. KLEIN.
HORSE HITCHING DEVICE.

No. 506,656.

Patented Oct. 17, 1893.

Fig. 1.

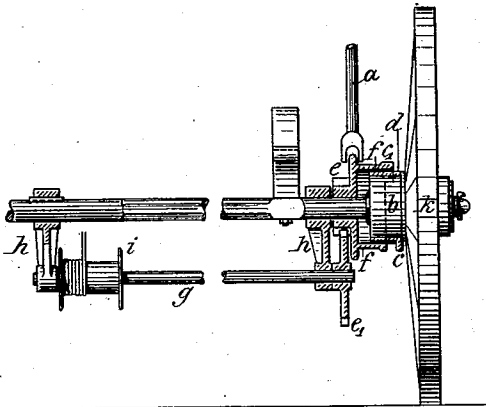


Fig. 2.

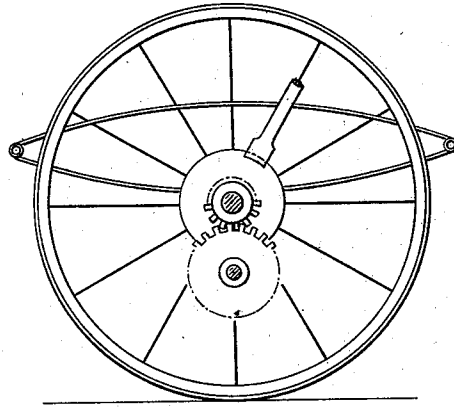


Fig. 3.

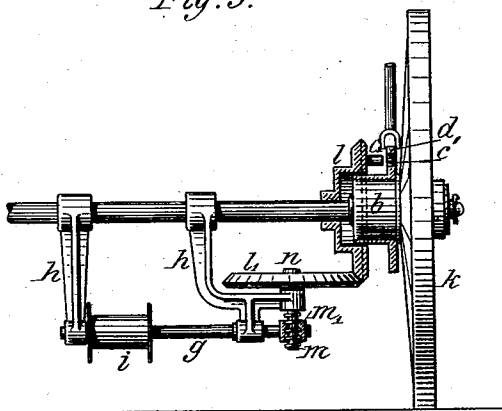


Fig. 4.

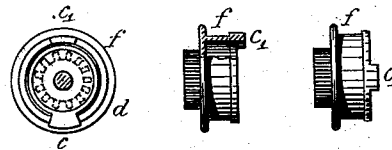
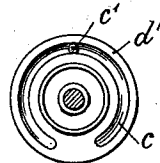


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

JULIUS BENEDIKT AND ISIDOR KLEIN, OF VIENNA, AUSTRIA-HUNGARY.

HORSE-HITCHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 506,656, dated October 17, 1893.

Application filed February 27, 1893. Serial No. 463,873. (No model.)

To all whom it may concern:

Be it known that we, JULIUS BENEDIKT and ISIDOR KLEIN, merchants, both subjects of the Emperor of Austria-Hungary, residing at 32 Kaiser Joseph Strasse, in the city of Vienna, in the Empire of Austria-Hungary, have invented new and useful Improved Devices for Stopping Runaway or Bolting Horses, of which the following is a description.

10 This invention refers to an arrangement for stopping runaway or bolting horses, and differs from existing devices in that it supplements the efforts of the driver in stopping or checking horses, which are bolting for any
15 reason. This is effected by means of a cord or strap attached to the bridle, and wound on a spool or drum slowly but irresistibly, which spool or drum is rotated, when operated by a lever or other suitable releasing device, by means of a gearing which is driven
20 from the axle of the wheels. When not in use this cord hangs loosely so as not to interfere with the free movement of the horse.

Referring to the drawings which form a
25 part of this specification, Figure 1 is a longitudinal section of the arrangement. Fig. 2 is a side view thereof. Fig. 3 is a modification. Fig. 4 shows the collar *f* in detail. Fig. 5 is an elevation of the grooved disk.

30 *a* is a lever (Figs. 1 and 2) operated by the coachman or driver in a suitable manner, or from inside the vehicle and moving a sliding collar or sleeve *f* on the hub *b* in order to get a projection or lug *c'* of such sleeve *f* to engage with recess or groove *c* of a sleeve *d* secured on the hub of the wheel, so that the sliding collar *f* takes the same movement as
35 the stationary collar *d*. A pinion *e* is mounted on or made a part of the sliding collar *f*, which pinion meshes with a pinion *e'* on a shaft *g*, which is supported by supports or bearings *h, h* and carries a spool *i* on which the cord to which the bridle is fastened, is

wound. The driver or coachman when leaving his box, or when the horses are bolting, 45 causes, by operating the lever *a*, the sliding collar *f* to move forward so as to engage and lock with the stationary collar *d*, as aforesaid, so that the rotary motion of the car wheel *k* is transmitted to the shaft *g* and to the drum 50 fixed thereon. By means of the pinions *e, e'* the cord, strap or the like, which was previously slack, will now be wound steadily, and without jerking on such drum *i*, until the horse's head is so drawn back, that it loses 55 its support in the collar.

In the modification shown in Fig. 3 the collar or sleeve *d* is movable on the hub *b*, and by engaging the lug *c'* with the groove *c* of such sleeve *d*, the miter wheels *l, l'* are operated, and through the shaft *n* of such pinion *l'* a worm gearing *m, m'* and thereby the shaft *g* carrying the drum *i* is rotated.

Having now particularly described and ascertained the nature of this invention, we declare that what we claim, and wish to secure by Letters Patent, is—

1. In combination the vehicle axle, the clutch thereon, with operating means therefor the shaft *g*, the drum thereon arranged 70 independently of the clutch said drum having a rope connected thereto and the speed reducing gearing between the clutch and the shaft *g*, substantially as described.

2. In combination, the vehicle axle, the 75 clutch, with operating means therefor the drum *i* having the rope connected thereto and the speed reducing gearing between the clutch and the drum, substantially as described.

In witness whereof we hereunto set our 80 hands in presence of two witnesses.

JULIUS BENEDIKT.
ISIDOR KLEIN.

Witnesses:

A. SCHLESSING,
F. BELMONT.