No. 613,773. Patented Nov. 8, 1898.

P. NEUMANN.

TRANSPORTING FRAME FOR BICYCLES.

(Application filed Aug. 19, 1897.)

(No Model.)

Fig. 1

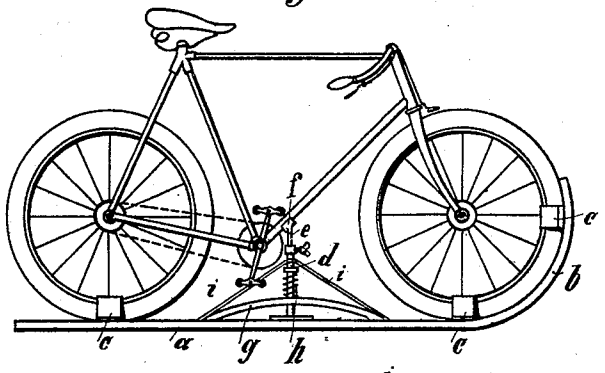


Fig. 2

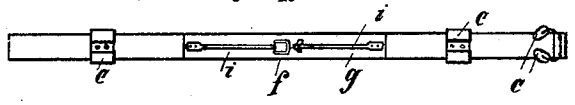


Fig. 3

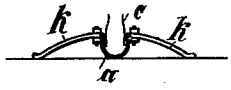


Fig. 4

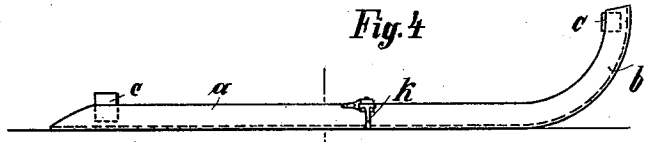


Fig. 5

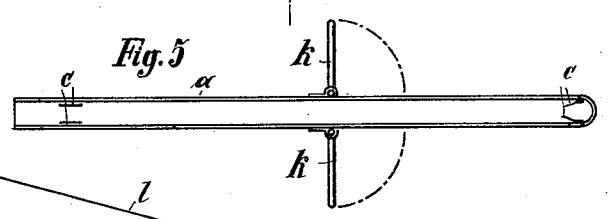


Fig. 6

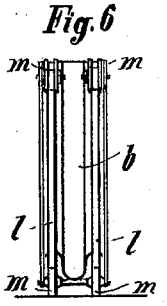


Fig. 7

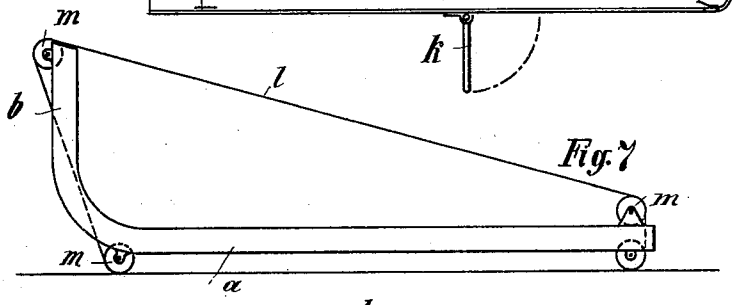
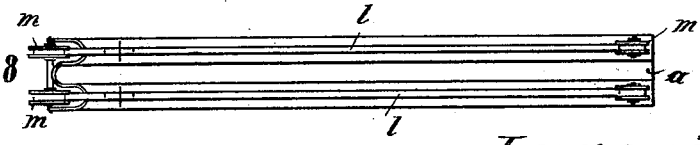


Fig. 8



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

PABLO NEUMANN, OF BUENOS AYRES, ARGENTINA.

TRANSPORTING-FRAME FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 613,773, dated November 8, 1898.

Application filed August 19, 1897. Serial No. 648,816. (No model.)

To all whom it may concern:

Be it known that I, PABLO NEUMANN, a citizen of the Argentine Republic, residing at Buenos Ayres, Argentina, have invented new and useful Improvements Relating to the Transport of Cycles, of which the following is a specification.

The nature of my invention will be understood by the following description.

My invention relates to the transport of cycles, and has for its object to provide means for the easy transport of cycles up and down staircases without causing any damage to the stairs or carpets laid thereon.

My invention consists of a slide-frame into which the cycle to be transported is fixed by means of clips embracing each of the wheels of the machine.

In the accompanying drawings, Figure 1 represents a safety-cycle within a slide-frame made in accordance with my invention, while Fig. 2 is a plan of the slide-frame. Figs. 3, 4, and 5 are respectively a side elevation, end sectional elevation, and plan of a modified form of slide-rail. Figs. 6, 7, and 8 are front and end elevations and plan, respectively, of a further modified form of slide-rail.

In carrying my invention into effect, as illustrated in the accompanying drawings, I provide a slide-frame of a strip of wood or metal *a*, which is diverted to form a curvature on its extremity *b* of a radius corresponding to that of the front wheel of the machine. The wheels of the machine are firmly secured to the slide-frame by means of spring-clips *c*, which embrace the rim of each wheel and are provided with a wooden backing. A tube-support *d* is further provided, upon which are mounted a stem *e* and holder *f*, by means of which the lower diagonal member of the frame is held. The holder *f* is capable of adjustment to suit different sizes of machines, and braces or stays *i* are provided for supporting the tube *d* in position, stays *i* being held by a wooden spring *g*. A spiral spring *h*, mounted around the tubular support *d*, presses this spring *g* against the rail *a*, a suitable aperture being formed within the wooden spring *g* for the passage therethrough of the tubular support *d*, as illustrated in Fig. 1 of the drawings.

It will thus be seen that the slide-frame *a* is firmly secured to the machine, and the machine is thereby capable of being easily transported, while where necessity arises for turning the steering-wheel the slide-frame may be formed in two parts, so that such may be permitted, and for the purpose of supporting the machine in position the wood spring *g*, with braces or stays *i*, may be turned at ninety degrees where *g* by means of spring *h* is pressed against the floor for the provision of lateral support.

Another form is shown by Figs. 3, 4, and 5, which illustrate an arrangement where the slide-frame is formed of a U-shaped section whereupon side parts *k* are provided, which are hinged to the slide-frame and are capable of being extended outwardly for the provision of lateral support and of being closed to the sides of the slide-frame when such is in use.

Figs. 6, 7, and 8 show a modification in which a rolling movement of the slide-frame is provided, rollers *m* being mounted within the slide-frame and an endless band *l* being caused to pass around each of the rollers, so that the transport of the machine may be facilitated. It will be seen that the band *l* contacts with the steps of the stairs instead of the rail, and consequently by this arrangement the steps are not liable to the wear that might otherwise be occasioned.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

In combination with the slide-frame, the standard extending upwardly therefrom, and the support therefor, comprising the part *g* turning on the standard with a spring *h* for forcing the part *g* downwardly, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

PABLO NEUMANN.

Witnesses:
HENRY HASPER,
CHAS. H. DAY.