K. VÖLLER.

GUN CARRIAGE.

APPLICATION FILED NOV. 8, 1912.

1,112,951. Patented Oct. 6, 1914.

Fig. 1.

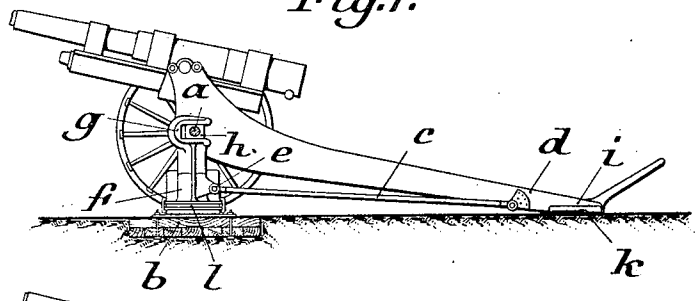


Fig. 2.

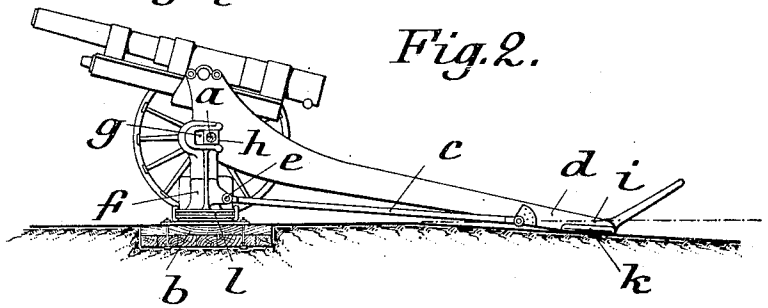


Fig. 3.

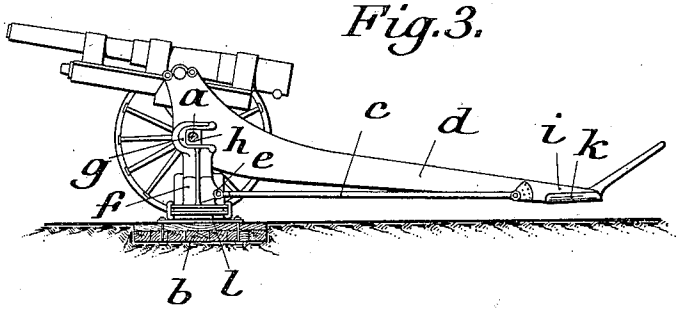
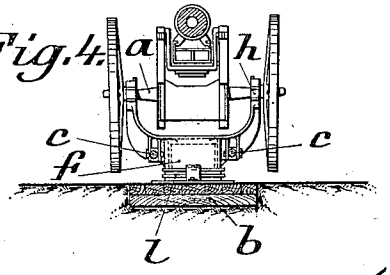


Fig. 4.



WITNESSES

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GUN-CARRIAGE.

1,112,951. Specification of Letters Patent. **Patented Oct. 6, 1914.**

Application filed November 8, 1912. Serial No. 730,254.

To all whom it may concern:

Be it known that I, KARL VÖLLER, engineer, a subject of the German Emperor, residing at 12 Scharnhorststrasse Dusseldorf, Germany, have invented certain new and useful Improvements in Gun-Carriages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Siege guns are generally pivoted in bearings on fixed platforms, in order to be readily moved, especially laterally, as for example in firing at air ships. If the axle of the gun carriage is held in a completely closed-in bearing, the platform must be so broad and heavy as to resist the moments tending to tilt the carriage, there being no assistance from a spade, and the transportation of such a platform presents considerable difficulty. This drawback is obviated according to the present invention by mounting the wheel axle on a pivoted frame in such manner that the axle and carriage can slide in a direction substantially parallel to the longitudinal axis of the gun.

The accompanying drawing represents a construction according to the invention, in which—

Figures 1, 2 and 3 are side elevations, showing the parts in different positions, and Fig. 4 is a rear end elevation.

The axle of the gun carriage is not held in a closed bearing, but is supported in forked bearings *g*, in which the blocks *h* of the axle can slide freely. The bearings *g* are shown as being at the ends of a forked frame *f* which is pivoted at its center on platform *b*. The horizontal thrust is transmitted from trail *d* to the pivoted frame *f* by two tension rods *c* which are connected to said frame, at *e*, at a point as low as possible beneath the axle. Figs. 2 and 3 represent the carriage when the axle is displaced respectively toward the rear and front of the bearing. This manner of pivoting allows the trail *d* to be moved up or down, so that the end *i* of the trail is always in contact with the ground at the moment of firing. The trail can be very easily raised, when the carriage is to be turned, and can adapt itself to any inequalities of the ground, without necessitating the loosening of the tension rods.

Since the end *i* of the trail cannot be inserted in the ground, a large sleigh-shaped plate *k* is placed below the end of the trail to allow the carriage and frame *f* to be turned on the pivot by the traversing gear about the pivot socket *l*, screwed to the platform *b*, without lifting the trail *d*. The lateral motion is transmitted from the frame to the carriage, or conversely, by the tension rods, and for this reason two rods are preferably used.

I claim as my invention:

1. The combination with a gun carriage, of a support for the carriage comprising a frame having sockets in which the wheel axle of the carriage may slide with the carriage in a direction substantially parallel to the longitudinal axis of the gun, and means connecting the gun carriage to said support at a point beneath the plane of the axle.

2. In combination with a gun carriage having a trail, a pivoted frame having sockets in which the wheel axle of the carriage can slide in a direction substantially parallel to the longitudinal axis of the gun, and means connecting the trail to said pivoted frame at a point below the wheel axle.

3. In combination with a gun carriage having a trail, and a platform, a forked frame pivotally mounted on said platform and having sockets in which the axle of said carriage can slide in a direction substantially parallel to the longitudinal axis of the gun, and thrust sustaining rods between said trail and said frame.

4. In combination with a gun carriage and a platform, a forked frame pivotally mounted on said platform and having sockets, bearings for the axle of the carriage fitted in said sockets, said axle and bearings being free to slide in a direction parallel to the longitudinal axis of the gun, and tension rods connecting said gun carriage to said frame at a point beneath the axle.

5. In combination with a gun carriage having a trail, a platform, a forked frame pivoted on said platform and having sockets forming elongated bearings in which the wheel axle of said gun carriage can slide, and tension rods connecting said trail to said frame at a point below said axle.

6. A pivot stand for wheeled gun carriages having a trail, comprising a fixed base, a pivot mounted to revolve on said base, an axle bearing to support the forward end of the gun carriage, said bearing and pivot having interengaging sliding members permitting displacement of the bearing relative to said pivot in the longitudinal direction of the gun.

7. The combination with a gun carriage, of a support for the carriage comprising a frame having bearings in which the wheel axle of the carriage may slide with the carriage in a direction substantially parallel to the longitudinal axis of the gun, and means connecting the gun carriage to said support at a point beneath the plane of the axle.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

KARL VÖLLER.

Witnesses:
HENRY HASPER,
WOLDEMAR HAUPT.