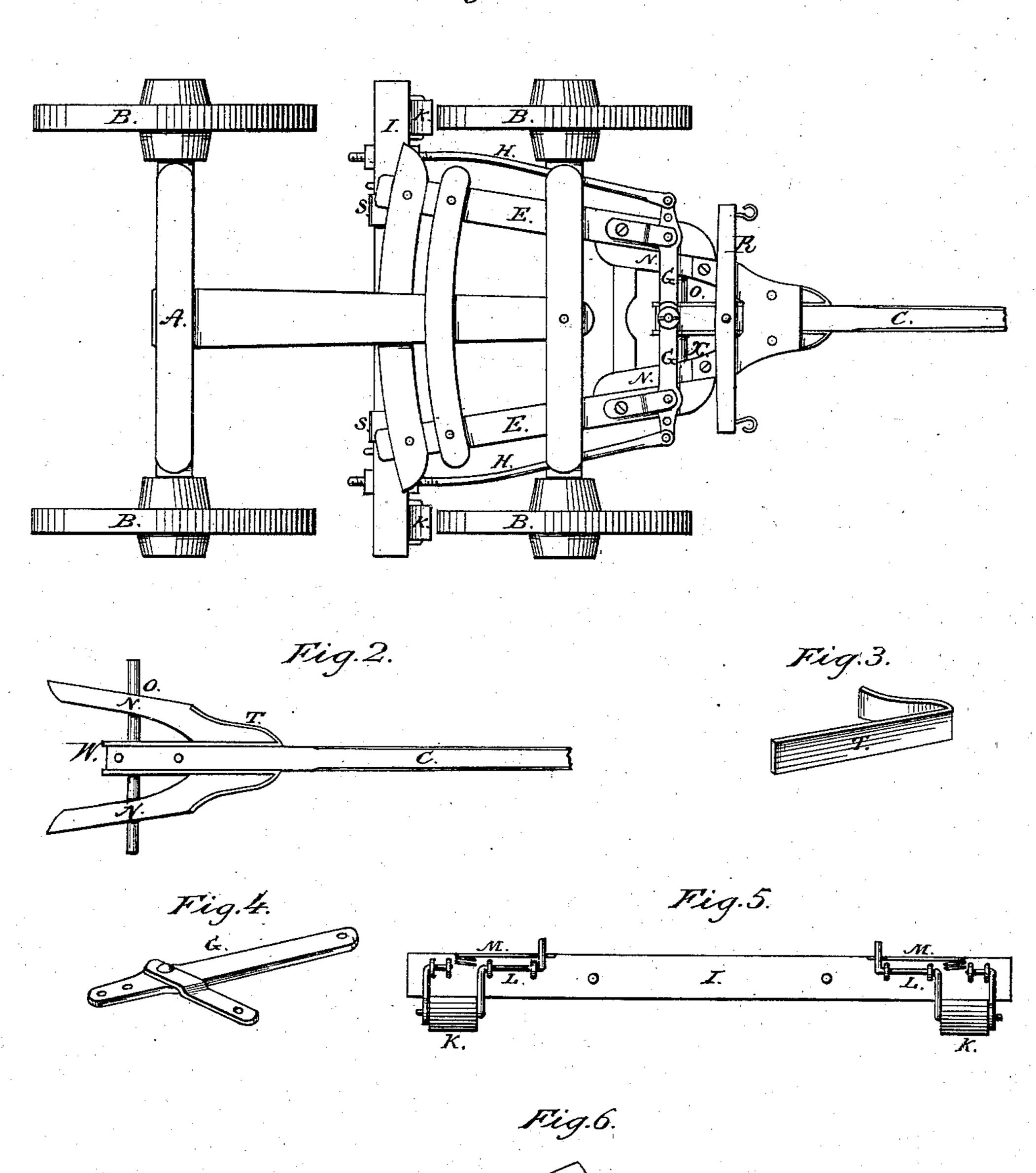
L. SEIVERT, J. DIETZEN & C. STOETZEL.

AUTOMATIC WAGON-BRAKE.

No. 193,044.

Patented July 10, 1877.

Fig.1.



Witnesses, David Ho Bates Joseph Finner Savrence Sewert Tacob Dietzen Charles Hockel

UNITED STATES PATENT OFFICE.

LAWRENCE SEIVERT, JACOB DIETZEN, AND CHARLES STOETZEL, OF BIG RIVER, WISCONSIN.

IMPROVEMENT IN AUTOMATIC WAGON-BRAKES.

Specification forming part of Letters Patent No. 193,044, dated July 10, 1877; application filed March 20, 1877.

To all whom it may concern:

Be it known that we, LAWRENCE SEIVERT, JACOB DIETZEN, and CHARLES STOETZEL, all of Big River, county of Pierce and State of Wisconsin, have invented certain Improvements in Self-Acting Wagon-Brakes, of which

the following is a specification:

The first part of our invention relates to the combination of sliding loop, iron plates, and posts. The iron loop is attached to the after end of a sliding tongue or pole. The iron plates are secured and riveted to the tongue-hounds, through which the tongue slides, and extending back beyond the pullbolt. On each side of the iron plates there is fixed two hollow shores or posts, through which the pull-bolt passes. One end of each rests against the tongue-hounds; the other two against the iron plates, so as to keep the plates from springing. The pull-bolt passes through the axletree-hounds, thence through the tongue-hounds and iron plates, and loop, forming a slide on the inside of the loop as well as a pull-bolt. On the top side of this loop there is a perpendicular pin, upon which the long arm of two levers are pivoted, having an oblong hole in each to fit the pin, and having a fulcrum-pin in the axletree-hounds with clevis. At the short end of each lever there is an iron rod attached that runs back and is connected to the brake-beam. Thus, when the sliding loop and long arm of the levers are pushed back by the tongue and neck-yoke, the short end of the levers and rod draws the brake-beam and shoes up against the hind part of the forward wheels. With this device, loop-plates, posts, tongue, and hounds can be made to withstand jerking or a sidewise motion of the forward wheels, where all others yet known have proved a failure.

The second part of our invention relates to the combination of shoe-piece fixed in a wedge-like form on each end of the brake-beam, opposite and fitted to each wheel, and pivoted by a spring-clevis. When the brake-beam is hauled forward the shoes press against the wheels and prevent them from turning. When the wagon is backed and the wheels reversed the shoe-piece slips down under the ends of the brake. When the tongue and loop are pulled

forward the brake-beam moves back, and the spring-clevis carries the shoe-piece back to place. The friction of the wheels on the shoe-pieces will cause the shoe-pieces to drop below the brake-beam, and thus release the wheels.

The double-tree, to which the horses are hitched, is pivoted to the sliding tongue, and so arranged that when the sliding tongue is pulled out the brake-beam is pushed back and the shoe is carried back to its place by

the use of a coil-spring.

Referring to the accompanying drawings, Figure 1 is a diagram of the running-gear of a wagon with the brake attached, embodying our invention. Fig. 2 is the sliding tongue. Fig. 3 is one of the iron slide-plates. Fig. 4 is one of the levers. Fig. 5 is the brake-beam. Fig. 6 is the shoe.

A is the axle of a wagon in common use. B B are the wheels. C is the sliding tongue by which the wagon is pulled by double-trees R.

On the extreme end of the tongue C is placed a pin by which the wagon is held back

by the neck-yoke.

TT are the iron plates, bolted to the tonguehounds, through which the tongue C slides and is held firm in its place. O is the pullbolt, passing through the axle-tree hounds, thence through the tougue-hounds, thence through iron plate T, and thence through an iron loop, W, on the end of tongue C, and also through two hollow shores or posts, X. G G are the two levers pivoted to and playing on the top side of the tongue C, and hinged by clevices to the axletree-hounds EE. HH are the rods, one end of which is clevised to levers G G and the other end passing through the brake-beam I, and secured by set-nuts, so that the rod may be shortened or lengthened as the case requires. SS are two iron straps, securely bolted to the axletree-hounds in which the brake-beam I plays back and forth and is held in place. KK are the shoe-blocks that are pressed against the wheels B B by the brake-beam I, and hinged to the under side of beam I. M M are the coil-springs that press against shank of the clevis, and move the shoe-blocks K K back to place when the tongue C is pulled on and

B. N N are the tongue-hounds through which the tongue C slides.

the tongue C slides.

We make no claim to the wagon or to the levers G G, rods H H, or brake-beam I; but

We claim as our invention—

1. The sliding loop W and its combination with tongue C, iron plate T, bolt O, and shores X, for the purpose hereinbefore set forth.

2. The spring-clevis L and its combination with the shoe-piece K and brake-beam I, for the purpose hereinbefore set forth.

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