

JESSE WINECOFF.

Improvement in Sulkies.

No. 119,956.

Fig. 1.

Patented Oct. 17, 1871.

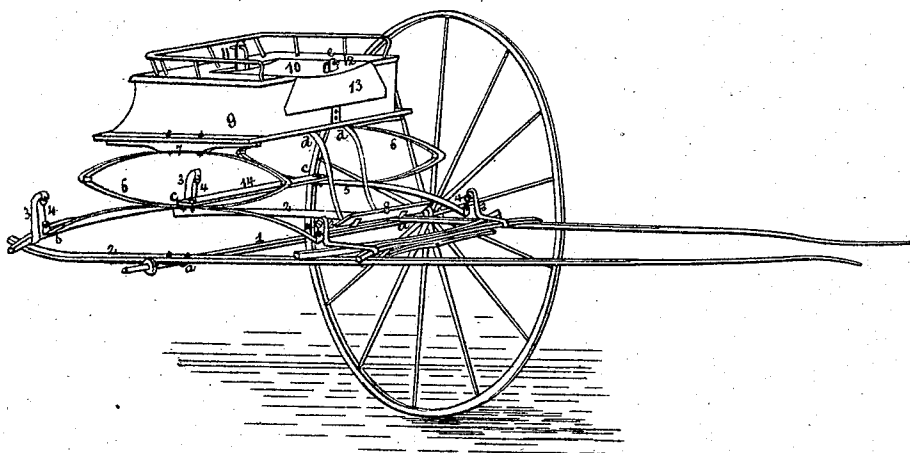
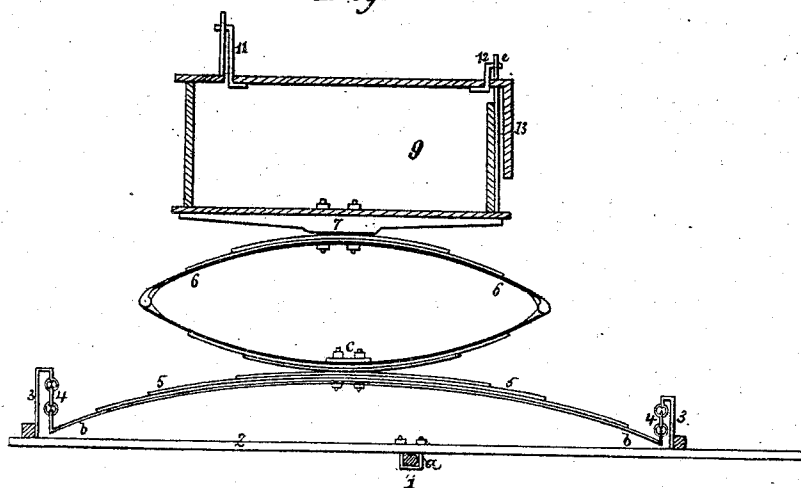


Fig. 2.



Witnesses.
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JESSE WINECOFF, OF BERLIN, PENNSYLVANIA.

IMPROVEMENT IN SULKIES.

Specification forming part of Letters Patent No. 119,956, dated October 17, 1871.

To all whom it may concern:

Be it known that I, JESSE WINECOFF, of the borough of Berlin, county of Somerset and State of Pennsylvania, have invented a new and useful Improvement in Riding-Sulkies, called "Winecoff's Improvement in Sulkies;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a perspective view of the sulky as improved, the right wheel being left off for the purpose of showing the manner of attaching the shafts to the axle.

My invention consists in a combination of parts in the upper structure by which the violent motions of the common sulky are prevented and smooth and pleasant motions are effected, both for the horse and for the rider.

1 is the axle, which is made the common way. 2 2 is the hinder section of the shafts, which are also made in the common way, or lapped on the axle, if desired, and fastened directly to the axle with clips at *a a*. 3 3 3 3 are uprights in which the upper frame-work swings, by means of base springs and links. These uprights are made of iron strips or steel strong enough to bear a man, bolted on the cross-pieces, and bent in at the top about two inches, with holes in the ends. They may be any height; but about four inches is the best. 4 4 4 4 are links, three inches long, by which the base springs are swung. 5 5 are the base springs, which are simply the upper halves of a buggy-spring, with ends turned straight up at *b b b b*, with holes for the links. 6 6 are common springs on which the seat is placed. 7 7 are the spring-presses on which the seat-box is placed. 8 is a step for the feet to rest on, with fastening-irons running up to the seat-box at *d d*, where they are bolted to the bottom of the box. 9 is one side of the seat-box, which is about fifteen inches deep, eight inches high, twenty-one inches wide behind and twenty-three inches before, being slightly flared. The top of this box is open, with only strips on edges, and the front side is

scooped out to make room for the swing-seat to work in. 10 is the swing-seat, made of thin boiler-iron, and bent up at the sides so as to be of convenient shape to sit on. The open space left under the swing is covered over with tin or sheet-iron, leaving a scoop for the swing. 11 is an upright, of iron, fastened to the back of the seat-box, having a hole in the top for the seat to swing in. This upright must be high enough to allow the swing-irons to be about five inches long. 12 is a similar upright fastened to the front of the seat-box. In these uprights the seat swings, by means of one swing-iron before and one behind, so that the rider sits always level, no matter how one wheel, then the other, goes up or down. This swing is also convertible—that is, there are stops arranged on under side of the seat-iron which either prevent the swing or let it on, as desired. 13 is a front curtain, simply, and may be included in the cushion. 14 is a cross-tie, of wood, at the ends *c c* of which the springs are securely clipped together, the base springs being put wider apart, or at the ends of the cross-tie, so as to give the seat more base. This cross-tie is put four inches behind axle.

By the foregoing combination are secured: First, a remedy for the bobbing motion, the center or cross-tie being four inches behind the axle, it being a double spring-balance. Second, the zigzag motion is also prevented by means of swinging of the seat and all in the links, the same acting like a swivel. Third, the sudden thrusts hither and thither in crossing breakers is prevented. The effect of the whole is a most pleasant riding-sulky.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination described in the foregoing specification, viz., 1 2 3 4 5 6 7 8 9 10 11 12 13 14, for the purpose of producing an agreeable riding-sulky, substantially as set forth.

JESSE WINECOFF.

Witnesses:

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(31)