(No Model.)

J. N. CLOUSE.

WAGON.

No. 431,508. Patented July 1, 1890.

Fig. 1.

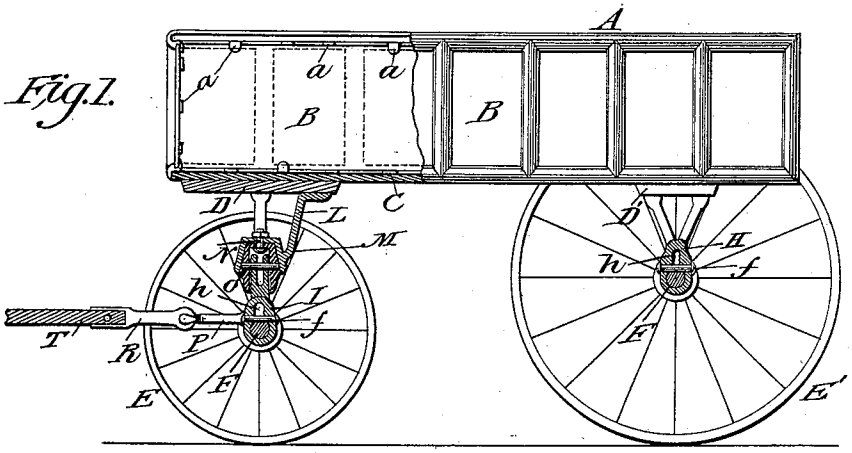


Fig. 2.

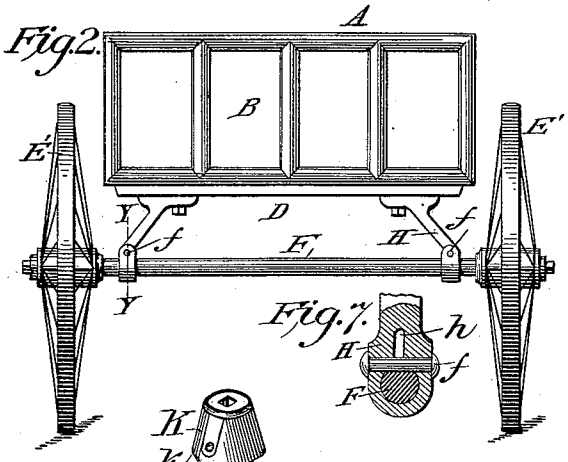


Fig. 7.

Fig. 6.

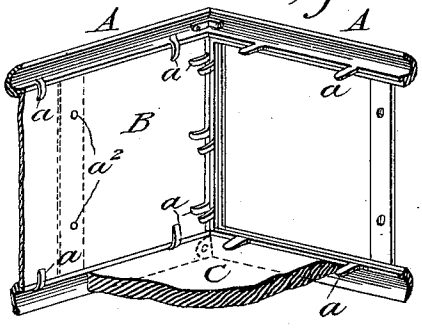


Fig. 4.

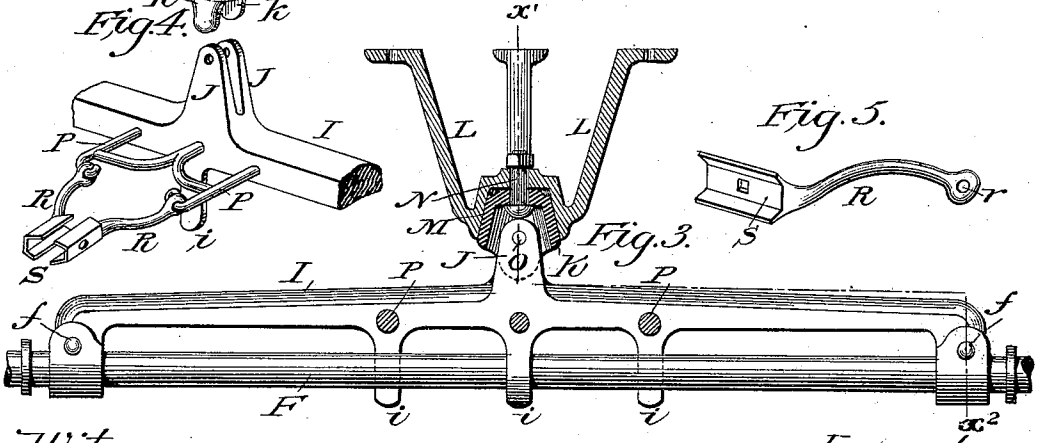


Fig. 3.

Fig. 5.

Witnesses.

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JOSEPH N. CLOUSE, OF ST. LOUIS, MISSOURI.

WAGON.

SPECIFICATION forming part of Letters Patent No. 431,508, dated July 1, 1890.

Application filed August 29, 1888. Serial No. 284,111. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH N. CLOUSE, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented new and useful Improvements in Wagon Running-Gear and Beds or Boxes, of which the following is a specification.

My invention relates to improvements in wagon running-gear and beds, such as are usually called iron or steel "express-wagons," for children's use, and my object is to provide a wagon that is strong, cheap, durable, and elegant in appearance. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the wagon, showing cut sections of the various parts taken on the planes X′ X′, X^2 X^2, and Y Y, Figs. 2 and 3. Fig. 2 is a rear end elevation. Fig. 3 is an enlarged front and sectional view of the front axle and bolster, the conical cup and the three-armed bracket with conical socket and king-bolt. Fig. 4 is an enlarged perspective detail view of a central portion of the front bolster, showing its pivotal connection with the conical cup and the attachment for the tongue. Fig. 5 is the enlarged detail view of one of the pivoted arms to which the tongue is attached. Fig. 6 is an enlarged perspective sectional view of one corner of the box. Fig. 7 is an enlarged sectional view taken on the plane Y Y, Fig. 2.

In all the views like letters refer to like parts.

The bed or box consists of a panel framework A for each end and side, secured together at the corners by means of bolts, rivets, or clinches and constructed of cast or malleable iron, each side of which is filled with one or more sheet-metal or wood-lining pieces or panels B, secured thereto by means of suitable projections *a a a* on the frame A. It is also provided with a bottom board C, secured to the frame A, and strengthened by cleats D D′. The running-gear consists of a forward and back portion. In the back one, F is an axle, to which is securely clinched and riveted two forked bracket-knees H H, which are supports for the box and are attached to the bottom and the cleats by means of bolts. These knees H H are provided with a round opening to receive the axle F, in connection with a branch slot *h*, which allows the metal to be compressed and drawn around the axle F, and a rivet *f*, which passes through the side or edge of the axle and across the slot, draws and holds all of the parts firmly together.

The front portion consists of an axle F, that passes through the two downwardly-projecting ends of a bolster I I. These ends are provided with branch slots *h* in connection with the round holes, in which the axle F rests. These branch slots allow the metal to be compressed and drawn firmly around the axle F and to be held rigidly to the axle by a rivet *f*, which passes through the side or edge of the axle and across the slot and holds the parts firmly together. This bolster is provided with two upward-projecting lugs or ears J J, over which fits a conical cup K, having two downward-projecting ears *k k*, and a hole for a king-bolt N, and is pivoted to the ears J J, so as to have a slight lateral oscillating motion, the pin O forming the pivot. Over this conical cup K fits a socket M, which is held upon it by the king-bolt N, and which forms a connection that allows the axle, bolster, and conical cup to have a revolving motion together. From the socket M, branches out and upward two or more arms L L L, which form a support and means of attachment for the front portion of the running-gear to the bottom C and cleat D of the box by means of bolts. From the bolster I I project out two arms P P and a brace, which terminate in hooks, to which are pivoted two bent arms R R, which clamp onto an octagon-shaped tongue T by means of a bolt. The downward-projecting spurs *i i i* on the bolster I I are designed to clinch around the axle F.

The wheels are constructed on the plan of an existing patent and need no description in this application.

By this construction of a small metal wagon-box I obtain a cheap, strong, and beautiful panel, lattice, or ornamental open-work box with a sheet metal or wood lining securely attached in a novel manner; and in this construction of a small metal running-gear for a wagon, I obtain all substantial parts, having positive movements, put together with the use of very little skilled labor.

I am aware that previous to my invention

small metal wagons have been constructed having the same general appearance, but entirely different in the particular novel construction and attachment of its various parts. I therefore do not claim such a wagon broadly; but

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

1. In a metal running-gear for a small wagon, the rear forked bracket-knees H H, provided with their round openings and branch slots *h h*, in combination with the axle F and rivets *f f*, substantially as described and set forth.

2. In a metal running-gear for a small wagon, the bolster I I, with its arms P P, clincher *i i i*, lugs or ears J J, and provided at each end with round openings and branch slots *h h*, in combination with the axle F and rivets *f f*, substantially as specified and shown.

3. In a running-gear for a small wagon, the bolster I I, with its ears J J, in combination with the conical cup K, having downward-projecting ears *k k*, and the pin O, substantially as described and specified.

4. In a wagon running-gear, the bolster I I, with its ears J J, pin O, and conical cup K, in combination with the socket M, having two or more arms L L, and the king-bolt N, substantially as described and shown.

5. In a forward movement for a wagon running-gear, the combination of the bolster I I, provided with ears J J, pin O, conical cup K, king-bolt N, and socket M, provided with two or more arms L L, as described and set forth.

6. The bolster I I, with its arms P P, terminating in hooks pivoted to the bent arms R R, provided with octagon seats S, in combination with an octagon-shaped tongue T, substantially as shown.

7. In a small metal express-wagon, a running-gear consisting of a rear axle F, forked bracket-knees H H, provided with round openings and branch slots *h h*, and rivets *f f'*, and a front axle F', bolster I I, with arms P P, clincher *i i i*, ears J J, round and branch openings and slots *h h*, conical cup K, pin O, socket M, arms L L, king-bolt N, bent arms R R, and tongue T, mounted upon wheels, in combination with the box consisting of a panel or open frame-work A, wood or metal panels B, bottom board C, and cleats D D, substantially as described and specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOSEPH N. CLOUSE.

Witnesses:
PAUL F. COSTE,
D. N. KIRBY.