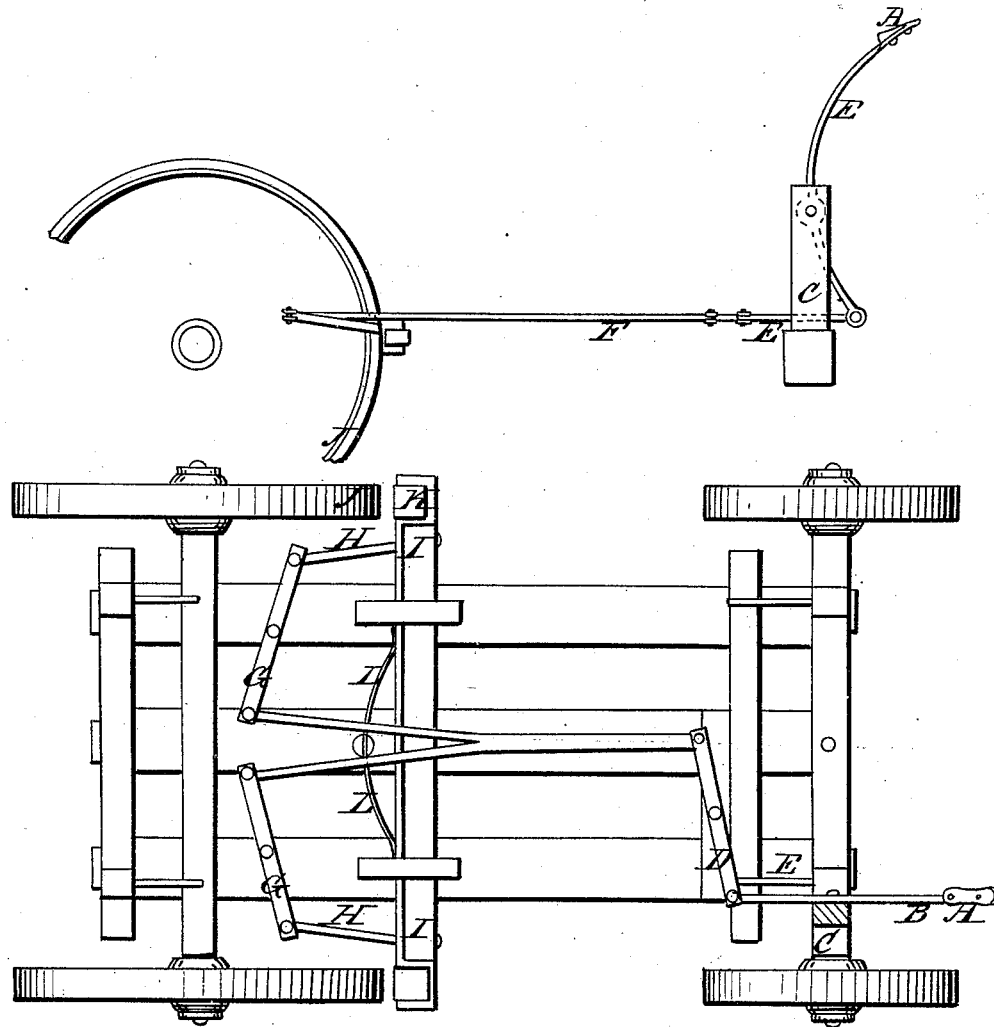


C. WALKER.
Carriage-Brake.

No. 1,222.

Patented July 8, 1889.



UNITED STATES PATENT OFFICE.

CYRUS WALKER, OF LEWISBURG, VIRGINIA.

BRAKE OR APPARATUS FOR ARRESTING THE MOTION OF CARRIAGE-WHEELS IN DESCENDING HILLS.

Specification of Letters Patent No. 1,222, dated July 8, 1839.

To all whom it may concern:

Be it known that I, CYRUS WALKER, of Lewisburg, in the county of Greenbrier and State of Virginia, have invented a new and useful Mode of Arranging Brakes or Apparatus for Arresting the Motion of Carriage-Wheels in Descending Hills; and I do hereby declare that the following is a full and exact description thereof.

Figure 1 in the accompanying drawing is a top view of the carriage frame, with the arrangement of the lever and the other parts constituting the brake, or arresting apparatus, the body of the carriage being supposed to be removed for the purpose of exhibiting the above named parts.

A, is a foot piece or treadle upon which the driver is to place his foot when it is necessary to arrest the motion of the carriage, by which means he will be able, without any extraordinary exertion, to check the motion of the hind wheels in any degree which may be desired, or to arrest them altogether. The lever B, to which the piece A, is attached moves on a fulcrum on the standard C, as shown in the side view thereof, Fig. 2. The lower end of this lever is connected to lever D, working on a fulcrum at its center, the connection being made by the rod E. The lever D, carries the rod F, which divides into two as it approaches its rear end, so as to be attached to the two levers G, G, both vibrating on pins or bolts at their centers. Each of these levers carries a connecting rod

H, H, at its outer end, which rods are attached to the slide or brake bar I, I, which is to be drawn by them toward the wheels J, J, so as to bring the blocks or stop pieces K, K at the ends of said bar into contact with the wheels.

L, L, is a spring by which the brake bar is borne off when the foot is removed from the treadle.

I am aware that brakes in some respects similar to that above described have been previously employed, but accidents have frequently occurred from the giving way of one of the blocks, or stop pieces, in consequence of which, under the arrangement of the respective parts of the apparatus as heretofore constituted the block, or stop piece, on the opposite end has been rendered inefficient, while by my improved arrangement this difficulty is obviated. This improvement consists in the employment of the two levers G, G, and the two connecting rods H, H, by which the bar I, I, is acted on equally, and simultaneously at each end, so that if one of the blocks, or stop pieces, should give way, the other will not be thereby affected. It is this particular arrangement of the rods and levers, which I claim as of my invention, and desire to secure by Letters Patent.

CYRUS WALKER.

Witnesses:

THOS. P. JONES,
LINTON THORN.