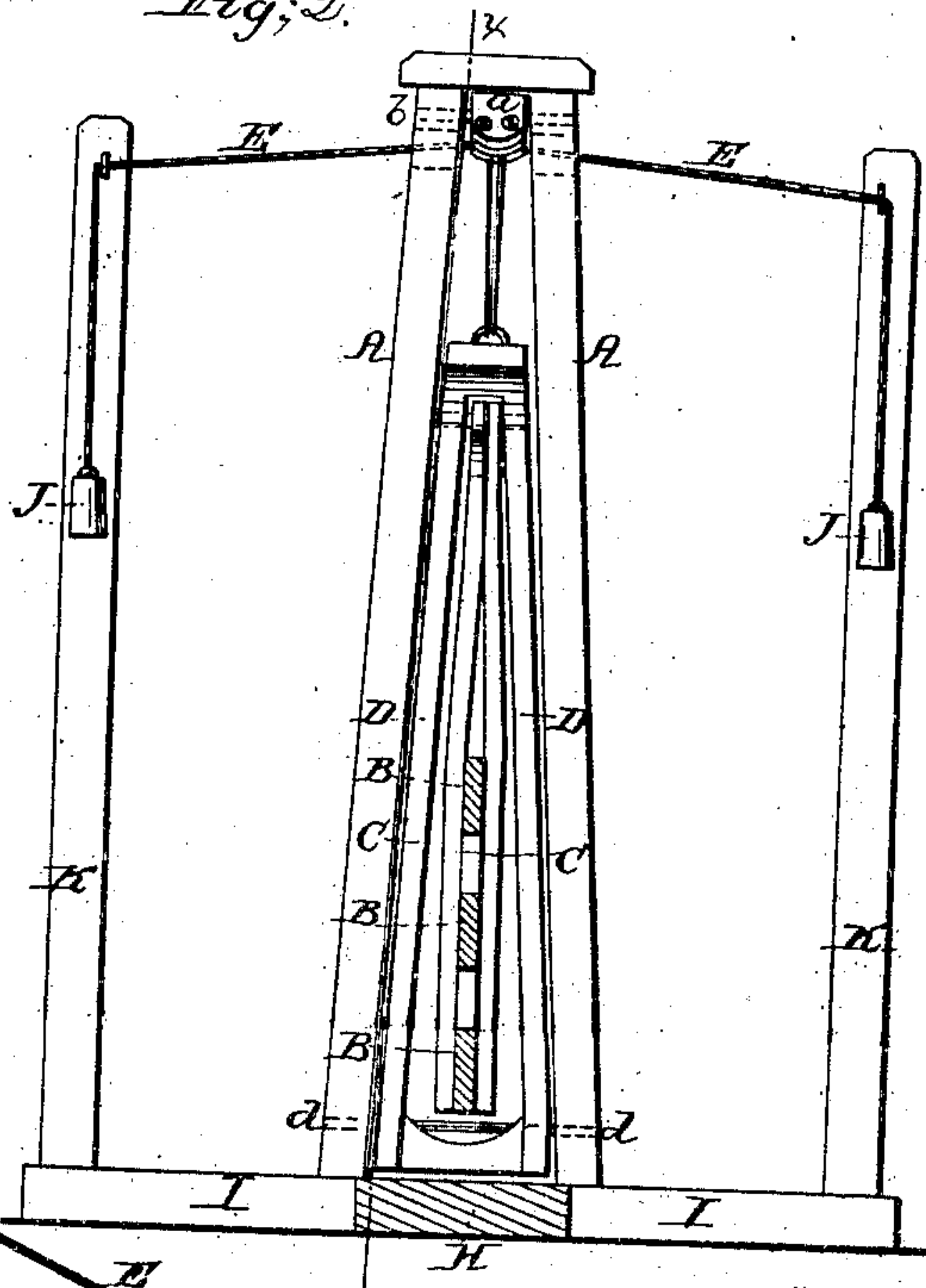


*W. C. Hooker,
Lifting Gate.*

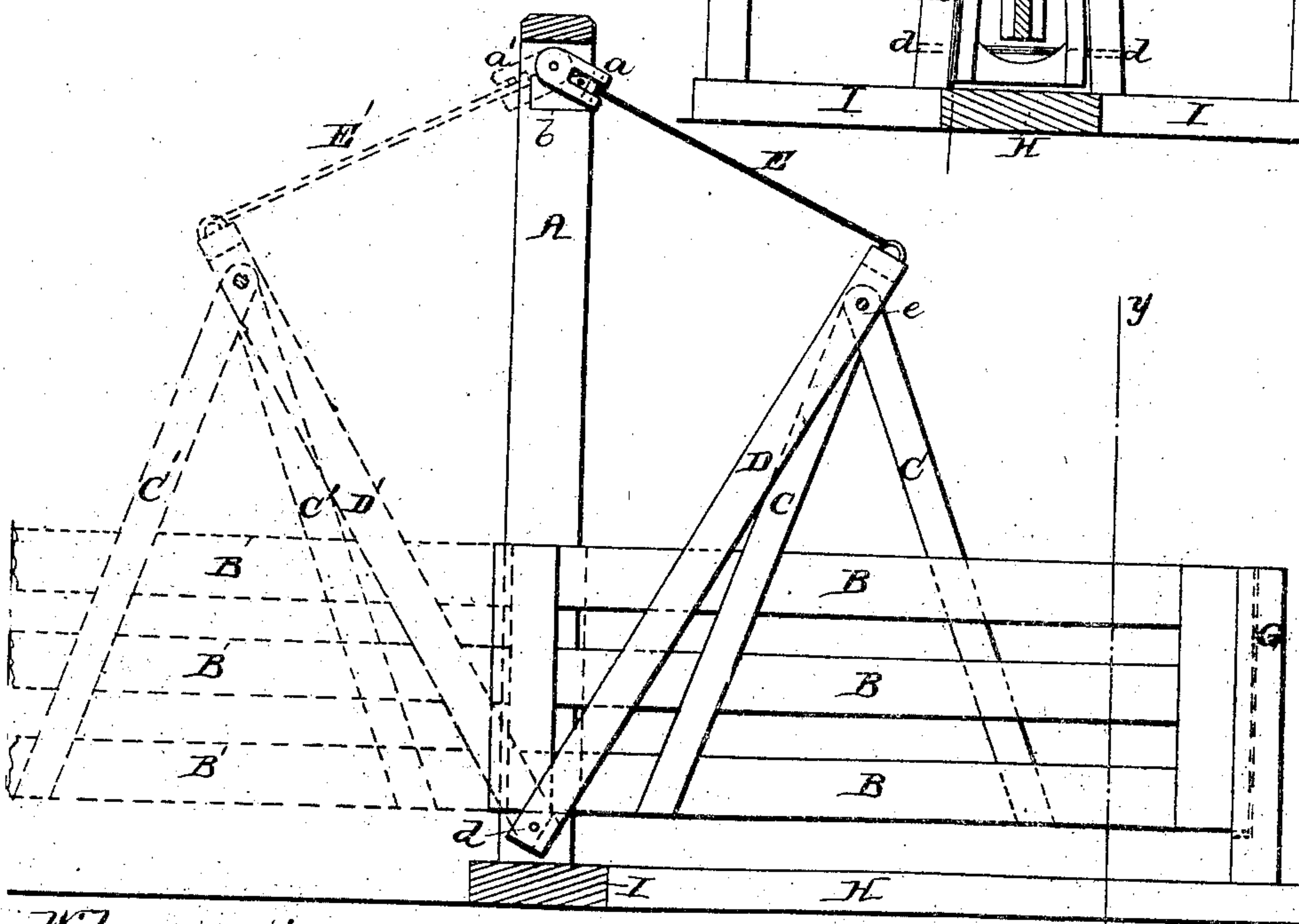
N^o 78,452.

Patented June 2, 1868.

Fig; 2.



Fig; 1.



*Witnesses;
H. C. Ashtutoz
J. A. Faver*

*Inventor,
W. C. Hooker
per Wm. L. Cottomers*

United States Patent Office.

WILLIAM C. HOOKER, OF ABINGTON, ILLINOIS.

Letters Patent No, 78,452, dated June 2, 1868.

IMPROVEMENT IN GATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM C. HOOKER, of Abington, in the county of Knox, and State of Illinois, have invented new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional view of my improved gate.

Figure 2 is a cross-section of the same through the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a gate which shall be simple, cheap, and easily operated by persons in vehicles.

The gate proper is shown at B B B, and is suspended by the planks C C, affixed to each side of the gate, as shown; the said planks being pivoted on a common bolt, *c*, which latter passes through the upper part of the swinging frame D D, as shown.

This swinging frame is pivoted on a rod, *d d*, passing through both parts of the said frame, and through the two uprights A A, which latter are affixed to and rise from the intersection of the bed-sills H and I, as shown.

Between the uprights A A, and above the swinging frame, is shell *a*, containing two sheaves or rollers, and to the top of the swinging frame are attached two cords or chains E E, which pass over the rollers in the said shell, and through eyes (or over rollers or pulleys, if desired,) affixed to the posts K, which latter are affixed to and rise from the bed-sill I, as shown.

The weights J J are attached to the cords for the purpose of taking up the slack of the cord or chains on the opposite side of gate from the operator.

When the gate is closed, it rests in contact with the post G, the latter being slotted to receive the end of the gate, as indicated by the dotted lines, the weight of the gate serving to keep it in firm contact therewith.

When the gate is to be opened, one of the cords is pulled, which raises the swinging frame D D to a vertical position, and under the shell *a*. The gate, from the motion of rising, swings with an impulse, which carries the frame D D past the shell, so that, by raising the cord at the moment the said frame becomes vertical, the said impulse of the suspended gate carries the frame through the uprights A A, and the gate and its attachments take the position shown at B' B' B' D' C' C' E' *a'*, which leaves the roadway free for the vehicle or person to pass.

A pedestrian has only to lift the gate in the obvious manner.

I claim as new, and desire to secure by Letters Patent—

The gate B B B, swung between the swinging frames D D, substantially in combination with cords E E, or their equivalent, the uprights A A and weights J J, all as and for the purpose set forth.

WILLIAM C. HOOKER.

Witnesses:

JAMES RICHEY,
THALES H. GIVENS