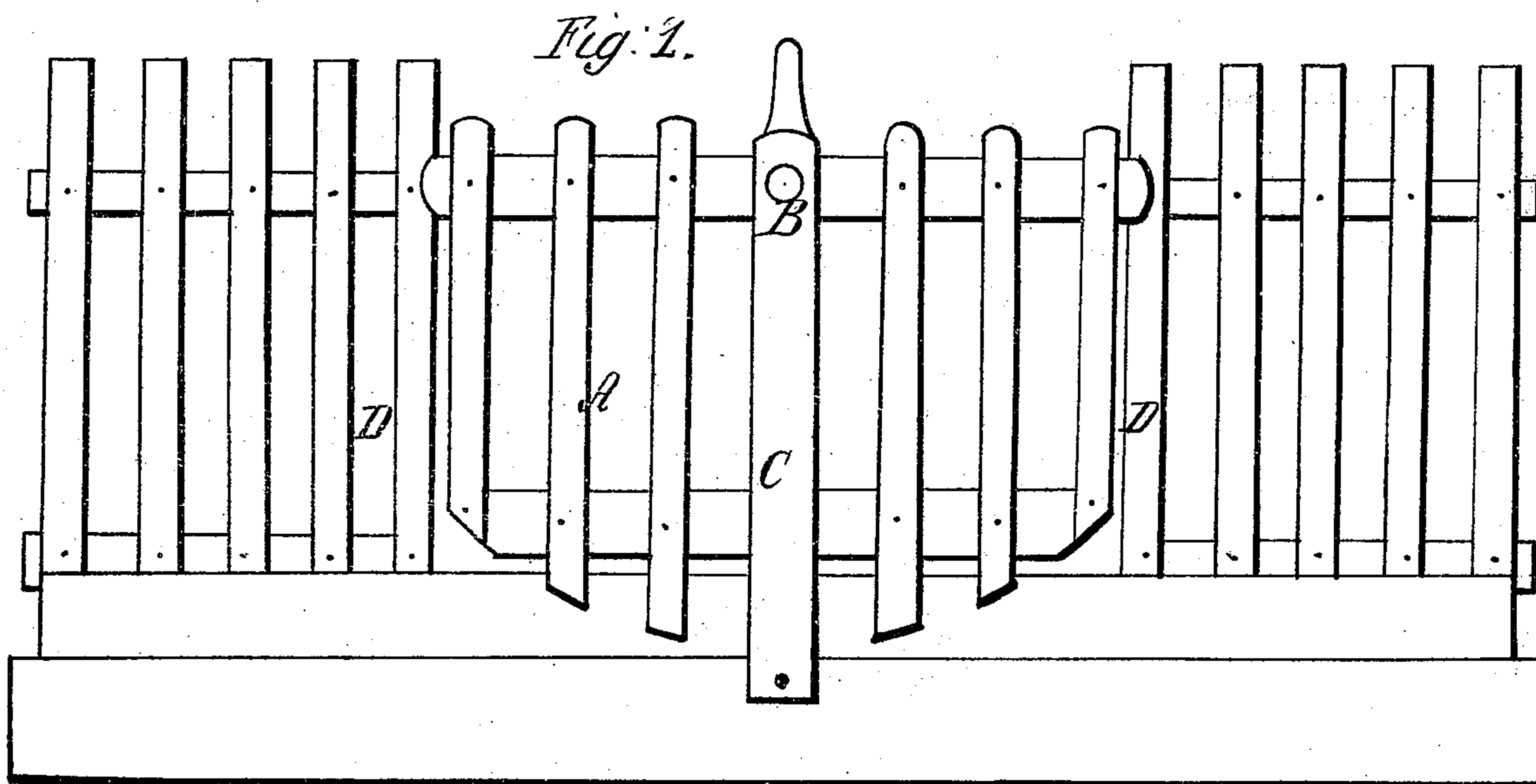
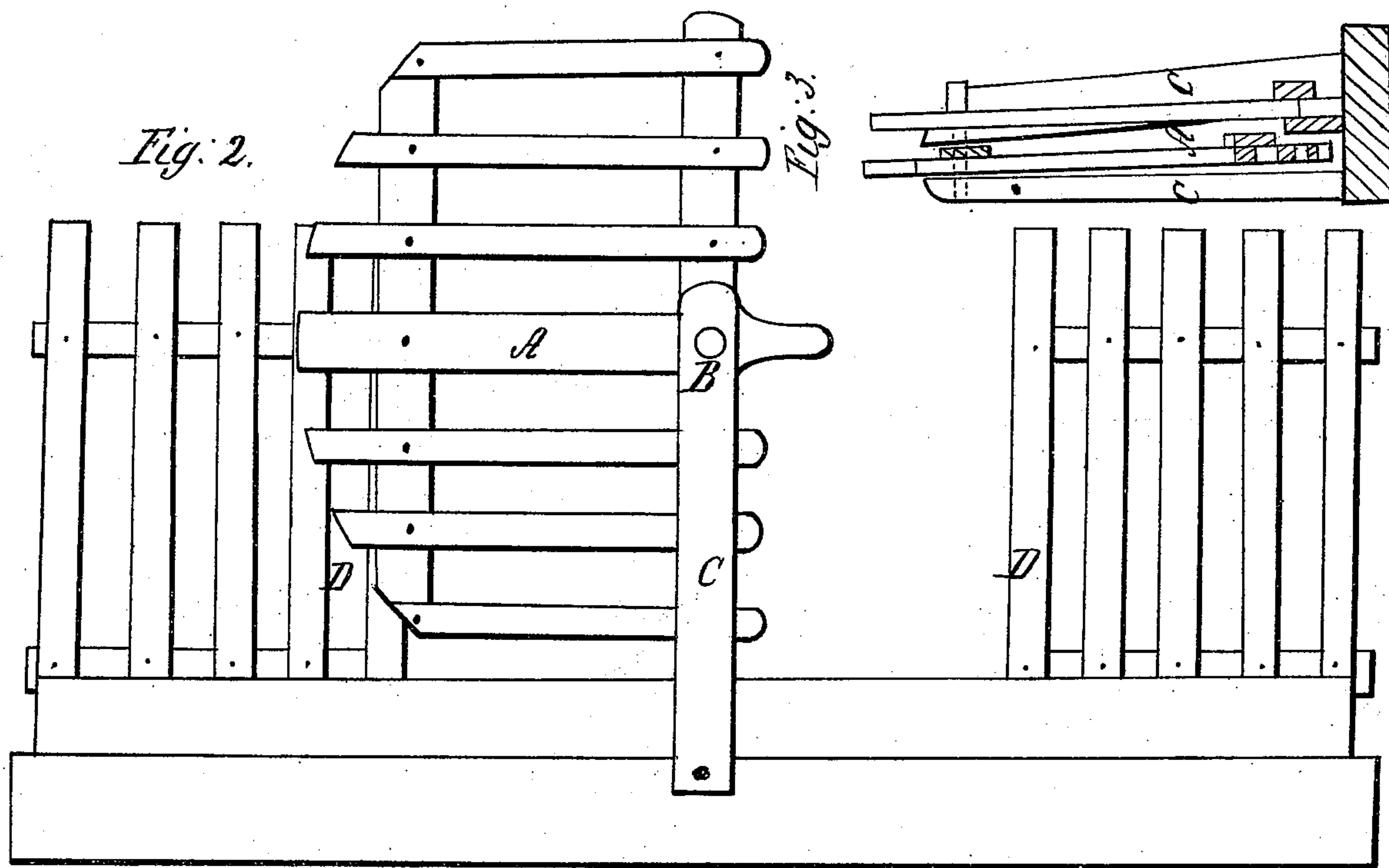


*G. A. Slater.*

*Gate.*

*N<sup>o</sup> 110,687.*

*Patented Jan. 3, 1871.*



*Witnesses;*

*A. J. Kidd  
Geo. A. Suter*

*Inventor;*

*George A. Slater*

# United States Patent Office.

GEORGE A. SLATER, OF BENTON HARBOR, MICHIGAN.

Letters Patent No. 110,687, dated January 3, 1871; antedated December 30, 1870.

## IMPROVEMENT IN GATES.

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

Be it known that I, GEORGE A. SLATER, of Benton Harbor, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Gates, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention relates to an improvement in self-closing gates, and consists in constructing and hanging a gate to open and close by vibration in a vertical plane, a perpendicular post on one or both sides sustaining it laterally and furnishing support for the pinion on which it swings, so that its own gravity keeps the gate closed when not purposely held open.

### *Description of the Drawings.*

Figure 1 is a perspective view of the invention, showing the gate closed.

Figure 2 is a perspective view of the invention, the gate being open.

Figure 3 is a transverse section of the invention.

### *General Description.*

A is the gate, constructed, as indicated in the diagram, of light pickets of wood, fastened at equal distances to the upper and lower parallel arms of the gate.

The gate may also be made by using a sufficient num-

ber of radiuses of a proper length, supported at their ends by a light frame-work of wood, giving to it any proper shape, and intersecting these radiuses with galvanized-iron wire at equal distances from the center outward.

B is the pinion of iron or steel, supported by posts C C, on which the gate is hung and vibrates.

D D are posts on either side of the gateway, forming part of the fence.

When the gate is closed, as in fig. 1, a slight downward pressure on either arm of the gate will cause it to swing on its axis B, and to assume the position seen in fig. 2, leaving an open passage-way between the posts C and D.

On the restraint being removed the gate immediately returns to its former position, shown in fig. 1, thus closing the passage-way.

### *Claim.*

I claim as my invention—

The gate A, hung on the pinion B, supported by the post C on one or both sides, so as to be opened or closed by vibration in a vertical plane, substantially as described, for the purpose hereinbefore specified.

GEORGE A. SLATER.

Witnesses:

WM. A. BROWN,  
JAS. VANDERBEK.