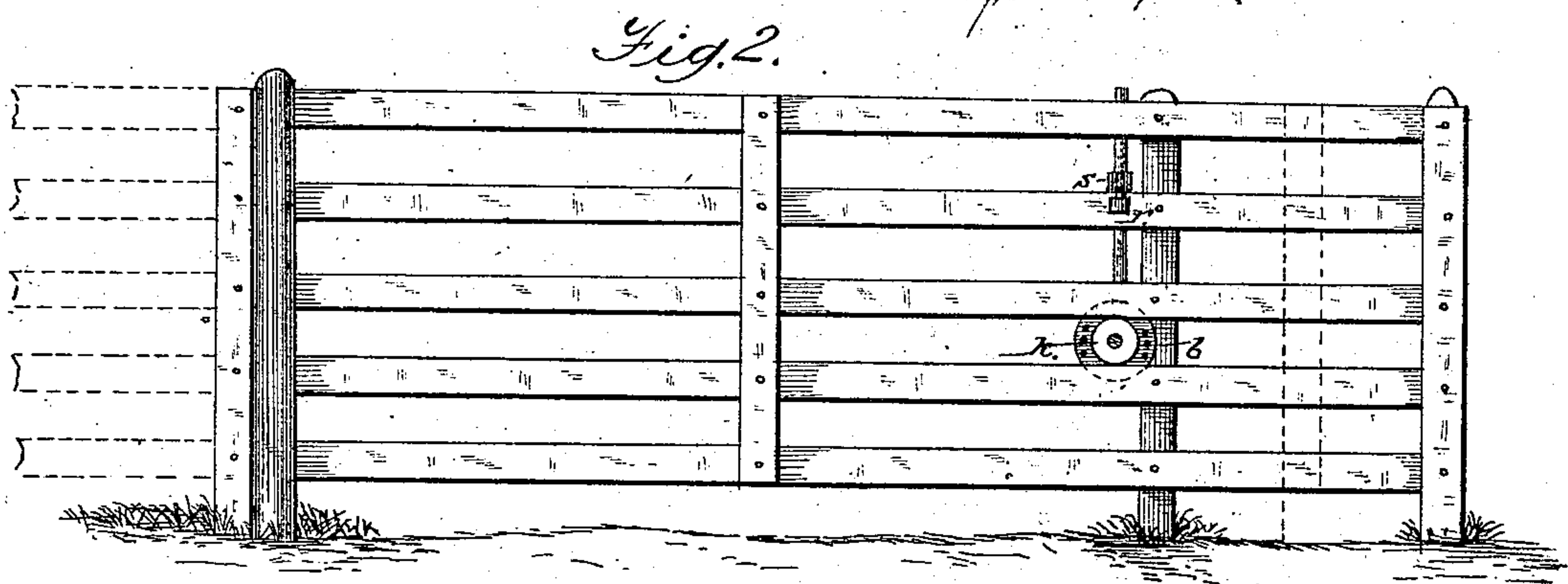
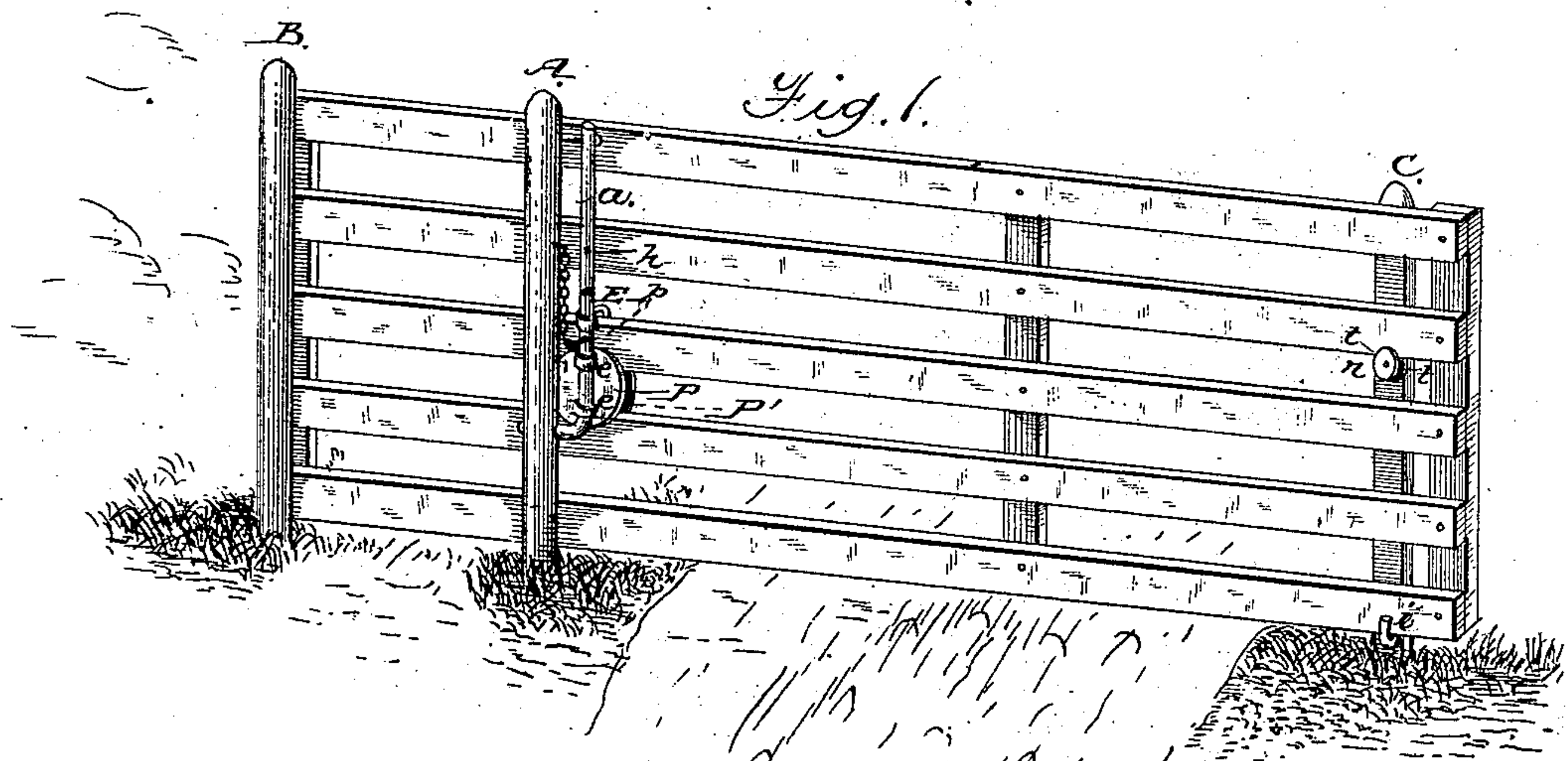


F. COOK.
Gate-Hanger.

No. 226,980.

Patented April 27, 1880.



UNITED STATES PATENT OFFICE.

FRANK COOK, OF HOLDEN, MISSOURI.

GATE-HANGER.

SPECIFICATION forming part of Letters Patent No. 226,980, dated April 27, 1880.

Application filed February 24, 1880.

To all whom it may concern:

Be it known that I, FRANK COOK, of Holden, county of Johnson, State of Missouri, have invented certain new and useful Improvements in Gate-Hangers; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and in which—

Figure 1 is a perspective view of the gate closed. Fig. 2 is an elevation with the housing of the sheave cut away. Fig. 3 is a perspective view of the gate raised to avoid snow.

The object of my invention is to provide a cheap and efficient means for hanging a gate so as to make it a sliding or swinging gate at will, and to adjust the gate to and from the ground, so that it can be raised out of the way of snow-drifts, &c.; and my invention consists in a gate combined with a sheave, upon the roller of which rests one of the horizontal boards of the gate, said sheave being provided with eyes which fit over a vertical rod attached to the gate-supporting post.

My invention further consists of certain details of construction, as hereinafter more fully described and claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the said drawings, A B C are three posts, set in the ground at about the proportionate distances shown. The space between A and C provides an entrance for vehicles, and the space between A and B provides an entrance for foot-passengers.

To post A is attached by any desirable means a vertical rod, *a*, the fastenings at the ends of said rod, and so arranged that it stands out an inch or more from post A. Over rod *a* fit eyes *ee*, cast integral with plate P of the sheave-housing, and sufficiently far apart to give a good bearing and resist torsional strain. This construction allows a free vertical movement of the sheave up and down the rod *a*, except when arrested by means of a pin, *p*, thrust into holes *hh* in the rod *a*, the lower one of the eyes *ee* of the sheaves resting on pin *p*, as seen in Fig. 3.

Above the sheave on rod *a* is a short sleeve,

s, carrying a bent arm, E, which engages over any one of the horizontal boards of the gate, and carrying on its end an anti-friction roller, *r*, so that it will sustain the gate against any direct thrust when pushed by cattle or otherwise. Ordinarily this bent arm E will overlies the top board of the gate.

Near the bottom of the post C is an iron hook, or rest, *i*, to receive the lowest board of the gate, and near the top of same post is a roller, *n*, provided with flanges *t t*, between which rests one of the horizontal boards of the gate. This flanged roller *n* acts in the manner of a latch, and at the same time sustains the end of the gate when being opened for foot-passengers.

The roller of the sheave is cast integral with the spindle *k*, and the plate P' is attached to plate P by means of ordinary square-end carriage-bolts *b b*.

When it is desired to open the foot-passenger way the gate is simply pushed toward post C, and, sliding on the roller of the sheave and roller *n*, the gate recedes.

When it is desired to open the gate for vehicles the end is lifted from roller *n* and opened as a swinging gate, the eyes *ee* turning on the rod *a*.

When snow has fallen so as to obstruct the swinging of the gate it is only necessary to raise the entire gate above the obstruction, as seen in Fig. 3, and insert a pin in one of the holes *h* in the rod, to serve as a support for the lower eye of sheave, and the gate will swing above the obstruction.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The rod *a*, post A, and sheave provided with eyes *ee*, in combination with the sliding and swinging gate, substantially as set forth.

2. In a gate-supporting sheave, the plate P, cast integral with the eyes *ee*, substantially as set forth.

3. The sliding bent arm E, in combination with rod *a*, the gate, and post A, substantially for the purpose set forth.

FRANK COOK.

Attest:

J. E. MCCLURE,
J. R. CHAMBERS.