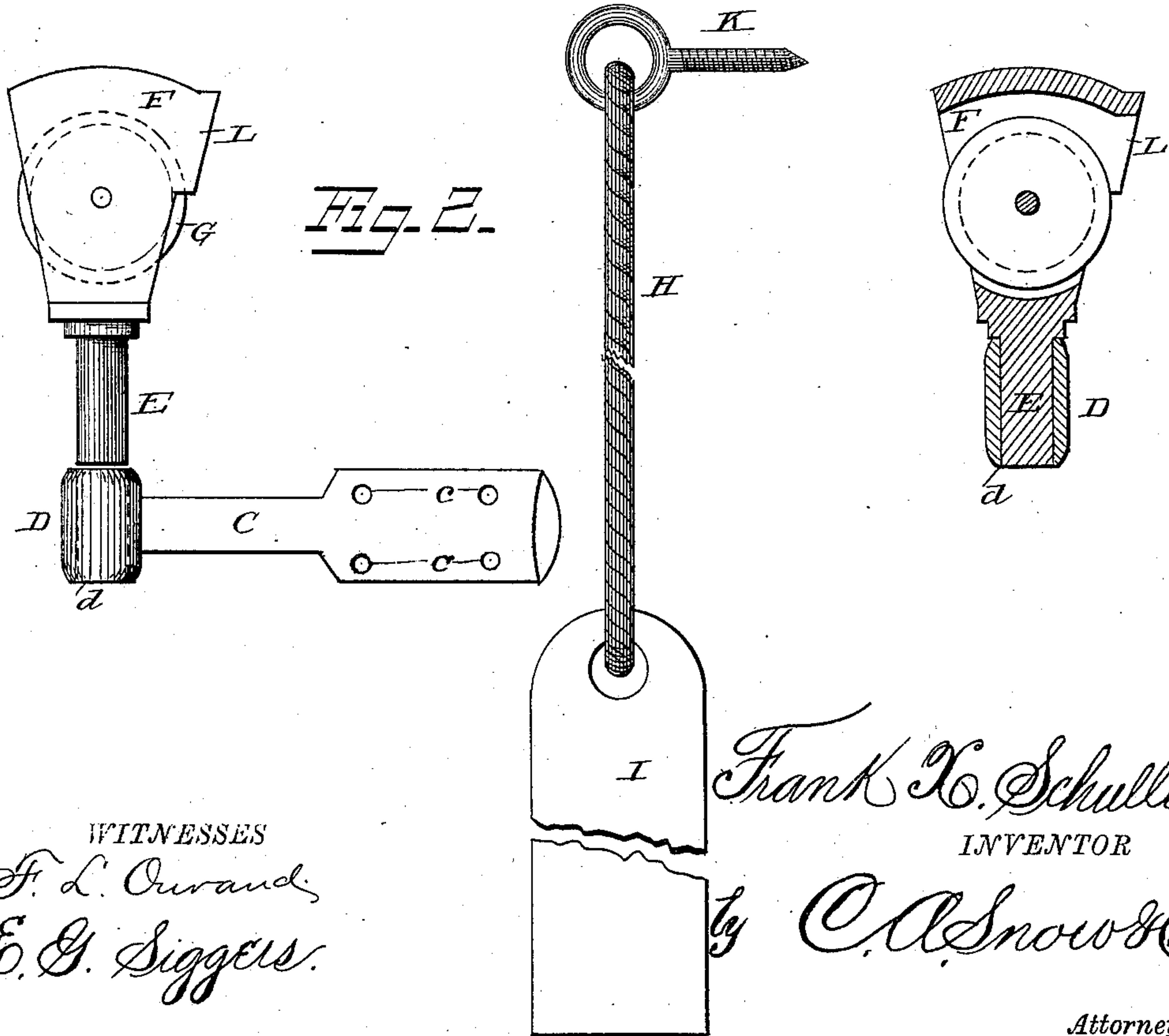
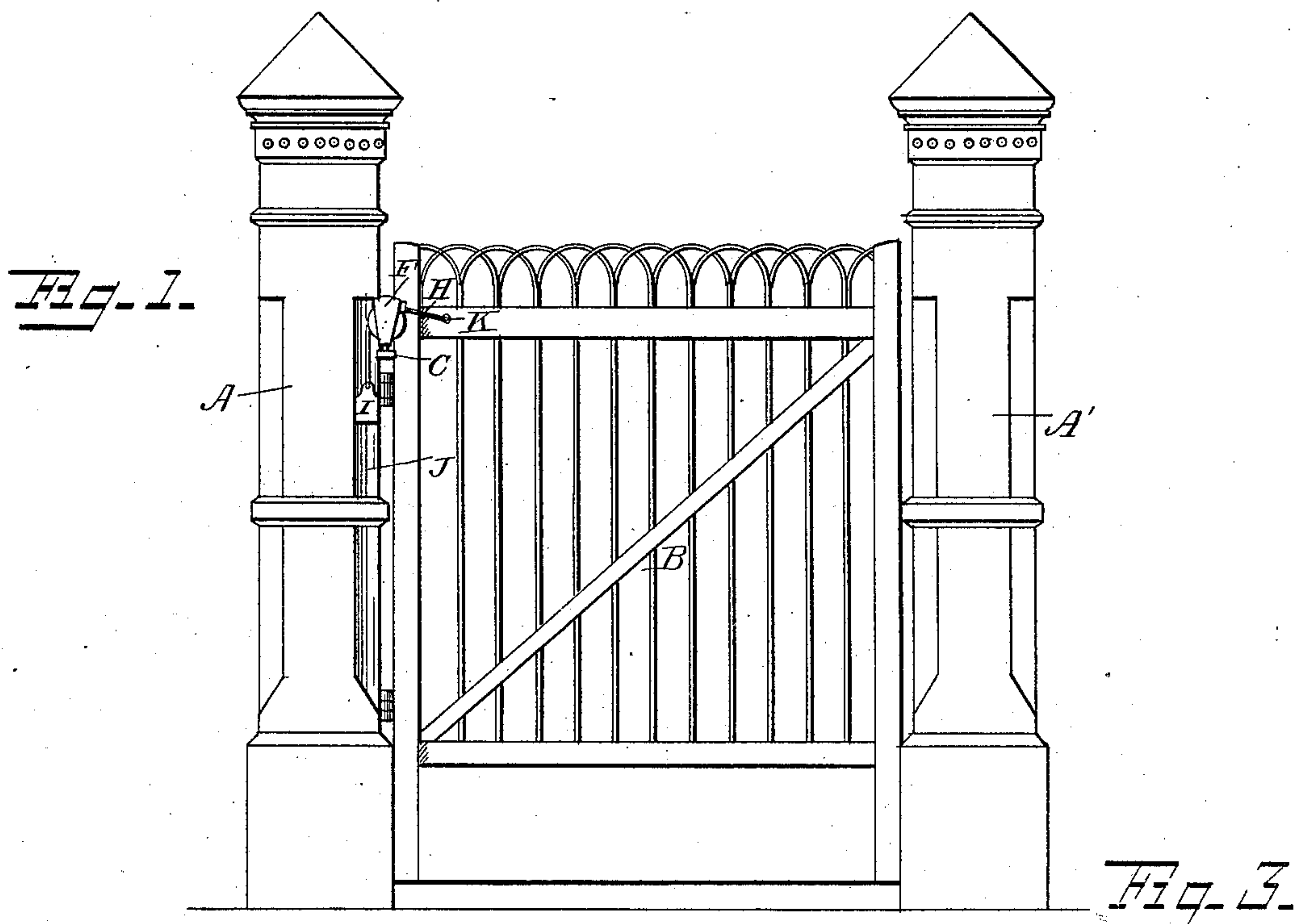


(No Model.)

F. X. SCHULLIAN.
GATE.

No. 294,814.

Patented Mar. 11, 1884.



Frank H. Schullian,
INVENTOR
by C. A. Snow & Co
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Attorneys

UNITED STATES PATENT OFFICE.

FRANK. X. SCHULLIAN, OF QUINCY, ILLINOIS.

GATE.

SPECIFICATION forming part of Letters Patent No. 294,814, dated March 11, 1884.

Application filed September 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANK. X. SCHULLIAN, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have invented a new and useful Gate, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to gates, and more especially to devices for closing the same; and it has for its object to provide an automatically-operating device that will turn with the gate, so as to lessen the friction on the weighted cord or chain.

To this end it consists in certain improvements in a construction and combination of parts, as hereinafter fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a view of a gate, showing the application of my improved automatically-operating closing devices. Fig. 2 is a view showing my devices detached from the gate and separated from each other. Fig. 3 is a sectional view taken through the pulley-frame and the arm to which it is swiveled.

Like letters refer to corresponding parts in the several figures.

Referring to the drawings, A A' designate the gate-posts, and B the gate, said parts being of any approved construction. C designates an arm having flanges running along the sides at one end, said flanges being adapted to be secured to the post A, so as to firmly hold the arm thereto. At the other end of the arm C is secured to or formed therewith a tube, D, in the opening of which is swiveled a pin or extension, E, cast with the pulley-frame F, the latter having a grooved pulley, G, journaled therein. A rope or chain, H, passes through the pulley-frame over the pulley, one end of the rope being secured to the upper end of a weight, I, working in a recess, J, of the post A, while the other end is connected to a screw-eye or staple, K, fastened to the gate. Lugs L are formed on one side and at the upper end of pulley-frame F, and serve to keep the rope or chain in place.

The operation of my invention is obvious: The parts are applied to the gate in the manner above described, and when the gate is

opened the rope or chain will be drawn through the pulley-frame, causing the weight to ascend in the recess J of the post A. As the gate is opened the action of the rope or chain will cause it to press against the lugs L, so as to swing or turn the pulley-frame around with the gate, and thus the friction on the rope or chain will be considerably lessened. The closing of the gate will be automatic by reason of the preponderance of weight I over the same, the pulley-frame swinging around to its normal position.

By means of the devices herein set forth the friction on the rope or chain will be considerably lessened, and the operation of closing the gate will be automatic. The devices can be applied to any gate, whether new or old, and will perform all their functions wherever they may be applied.

My devices are simple, durable, inexpensive, and will prove of remarkable efficiency.

In order to define more clearly the scope, advantages, and features of my invention, I would have it understood that I claim nothing shown in the patents of Twitchell, No. 6,632, dated August 7, 1849, Richardson, No. 133,057, dated November 12, 1872, and Kime, No. 174,259, dated February 29, 1876.

Having described my invention, I claim as new—

As an improvement in gate-closing devices, the combination of the pulley-frame F, formed with lugs L, and carrying a pulley, and provided with a pin or extension projecting downwardly therefrom, a horizontal bar, C, arranged at right angles to the pulley-frame and secured to the gate-post, a socket or tube, D, formed at one end of the bar, and in which the pin or extension is swiveled, and a rope or chain passing through the pulley-frame, and having one end secured to the gate, while the other end is provided with a weight sliding in a recess of the post, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FRANK. X. SCHULLIAN.

Witnesses:

BATTAS SCHULLIAN,
FRANK LAACKE.