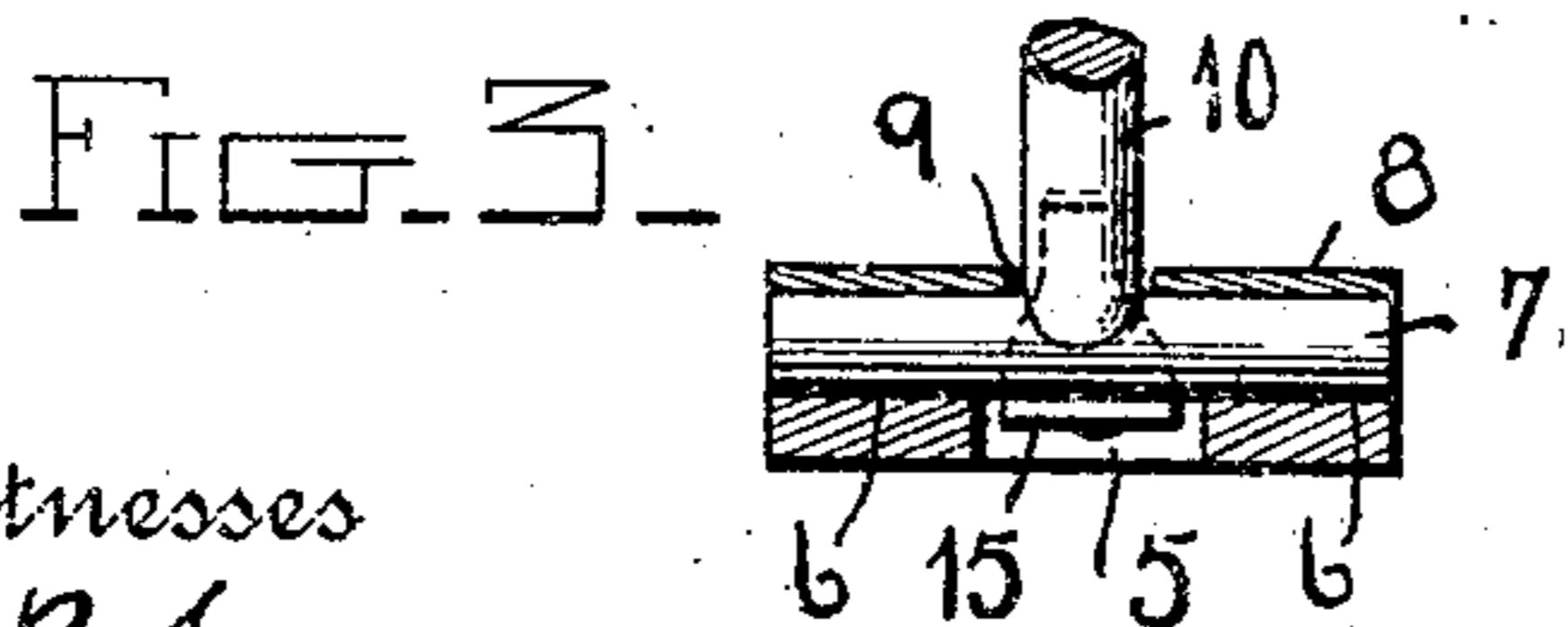
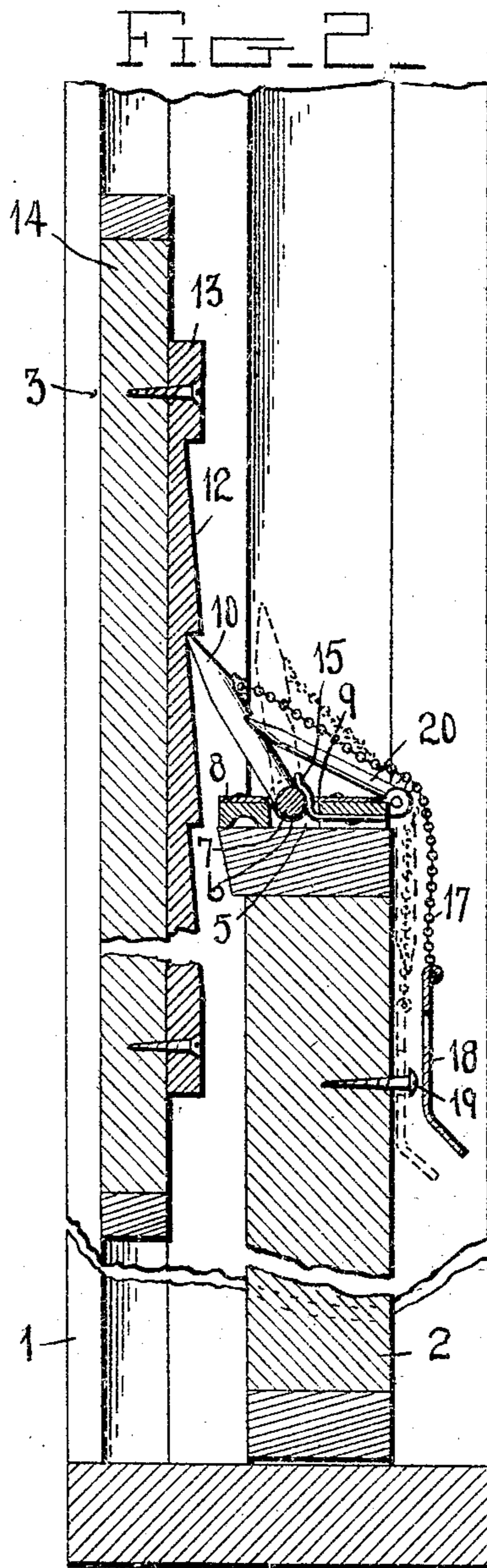
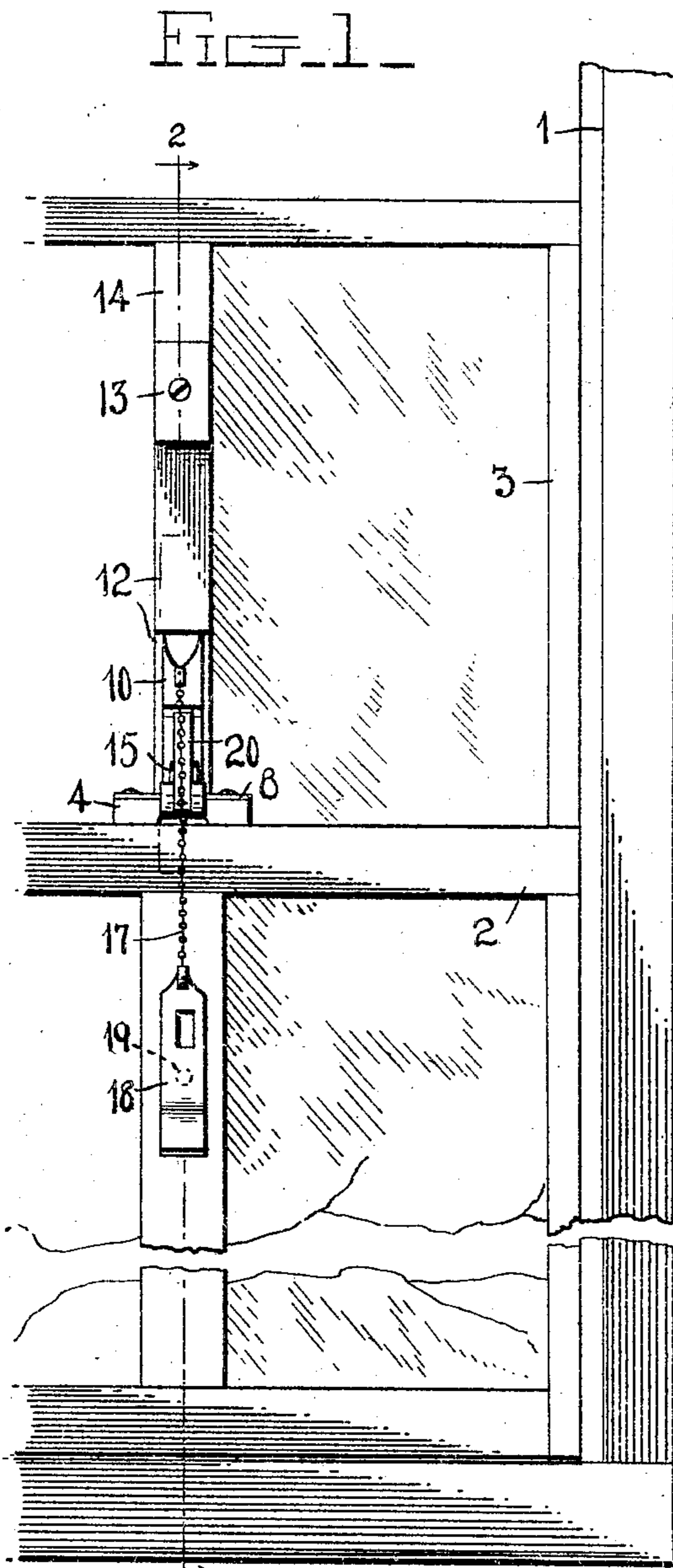


No. 884,115.

PATENTED APR. 7, 1908.

T. WERTZ.  
SASH FASTENER.  
APPLICATION FILED JULY 3, 1907.



Witnesses  
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# UNITED STATES PATENT OFFICE.

THOMAS WERTZ, OF ST. LOUIS, MISSOURI.

## SASH-FASTENER.

No. 884,115.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed July 3, 1907. Serial No. 382,036.

*To all whom it may concern:*

Be it known that I, THOMAS WERTZ, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Sash-Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in sash fasteners, and is especially designed as an improvement over my sash fastener, for which Letters-Patent were granted August 22, 1905, No. 798,002.

The object of the invention is to provide a device of this character by which either or both the upper and lower sashes may be locked in a closed or partly opened position.

A further object is to provide a sash fastener of this character which will be of simple construction, efficient, and easily operated, and which may be readily applied to the sash of the window without cutting away any part thereof.

A further object is to provide a fastener which cannot be opened or tampered with from the outside, except by breaking the glass of one or the other of the sashes.

In the accompanying drawings,—Figure 1 is a front elevation of a window and frame, showing the application of the invention; Fig. 2 is a central vertical sectional view of the same showing in full lines, the sashes closed and locked by the improved fastener, and in dotted lines showing the fastener disengaged to permit said sashes to be raised or lowered; and Fig. 3 is a detail central cross sectional view taken through the bearing plate, pintle and retaining plate.

Referring more particularly to the drawings, 1 indicates the window frame, 2 the lower sash, and 3 the upper sash of said window frame. A bearing plate 4, preferably of rectangular form, having a central transverse opening 5, and two transversely disposed recesses 6 in its upper face, extending from the ends of said opening to its side edges, is removably fastened by screws or other equivalent means to the upper rail of the lower sash.

A horizontally disposed pintle 7 has its ends arranged in the recesses of said bearing plate, and a retaining plate 8 having curved bearing surfaces formed therein to engage the upper side of the pintle is removably se-

cured to the top or upper face of the bearing plate by the same screws employed to fasten it to the lower sash, and serves as a means for holding the pintle in operative position.

In the retaining plate, midway between its ends and between its curved bearing surfaces is formed an aperture 9, through which is adapted to project an arm or pawl 10, the lower end of which is secured to the pintle 7, or, if desired, said pawl or arm may be cast integral with said pintle. The upper end of the pawl 10 is beveled to form a wedge-shaped edge, which is adapted to be engaged with one of a series of ratchet teeth 12 formed on a vertically disposed bar 13, which is screwed or otherwise removably fastened to the midrail 14 of the sash.

In order that the pawl or arm 10 may be normally held in engagement with the ratchet teeth 12 on the bar 13, a spring 15 is provided, said spring having one end partly encircling the pintle 6 and bearing against the lower end of the pawl 10 and secured at its opposite end to the bottom or under face of the bearing plate 4 by screws or other equivalent means. The tendency of said spring 15 is to normally force the upper end of the pawl into engagement with the ratchet teeth 12.

Secured to the outer side of the pawl 10 near the upper end of the same, is the upper end of a short chain 17, to the lower end of which is secured an apertured catch plate 18. This plate is adapted to engage with a screw or other suitable projection 19, which is secured to the rail of the lower sash, and when so engaged, will hold the pawl 10 out of engagement with the ratchet teeth 12 of the vertically disposed bar 13, and thus permit the window sashes to be raised or lowered. The lower end of said plate 18 is curved slightly outward to form a handle, whereby the same may engage or disengage with the screw or projection 19. A second pawl 20 is pivotally connected at its lower end to the outer end of the bearing plate 4 in any suitable manner, and is beveled at its upper or opposite end to form a wedge-shaped edge adapted to engage in a notch formed near the lower or inner end of said first-mentioned pawl 10 and coacts with the spring 15 to hold said pawl in secure engagement with the teeth of the vertically disposed bar 13.

The bar 13 may be provided with any suitable number of teeth with which the arms of the pawl 10 may be engaged, thereby permitting one or both of the sashes to be adjust-

ed so that the room or apartment may be ventilated without danger of the window being opened sufficiently to admit of an intruder.

5 From the construction disclosed it will be readily seen that a fastener could not be opened or tampered with from the outside, except by breaking the glass in one or the other sashes, and owing to the spring 15 and  
10 pawl 20 the pawl 10 cannot be jarred or shaken out of engagement with the teeth of the rack bar, and a strong and reliable fastening device is thereby formed.

15 From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

20 Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having described my invention, what I

claim as new and desire to secure by Letters- 25 Patent, is:—

A sash fastener comprising a bearing plate adapted to be fastened to the top rail of a lower window sash, a pintle disposed transversely of the plate and mounted in its top, a 30 pawl projecting laterally from the pintle, a retaining plate secured to the top of the bearing plate and arranged over the pintle to secure the latter in place, a rack bar secured to the upper sash, a spring carried by the bearing 35 plate to normally engage said pawl with the teeth of said rack, and a finger pivoted to the bearing plate and coacting with the spring to normally hold the pawl in engagement with the teeth of said rack. 40

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

THOMAS WERTZ.

Witnesses:

CHARLES M. LANE,  
J. C. WERTZ.