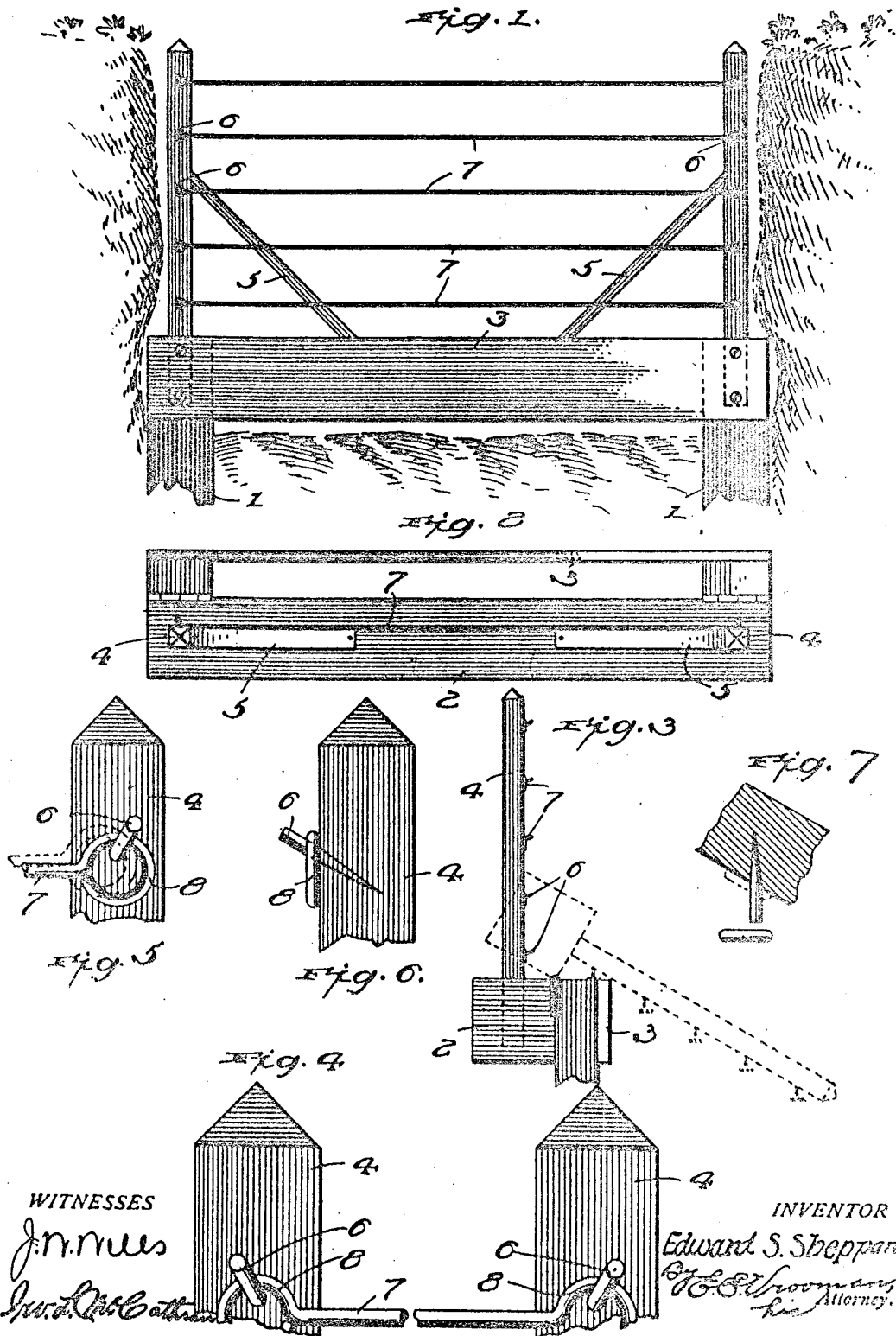


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 DETACHABLE PANEL STRUCTURE FOR FLOOD GATES.
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DETACHABLE PANEL STRUCTURE FOR FLOOD-GATES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD S. SHEPPARD, a citizen of the United States, residing at Poplar Bluff, in the county of Butler and State of Missouri, have invented certain new and useful Improvements in Detachable Panel Structures for Flood-Gates, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to flood gates, and has particular reference to means for detachably securing the panels of the gate to the supporting posts.

Another object of this invention is the production of an efficient panel engaging pin which is so secured to the posts of the gate as to normally hold the panels in engagement therewith, and cause the panels to be readily detached therefrom when the gate is thrown to an inoperative position.

With these and other objects in view, this invention consists of certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described and claimed.

In the drawings:—Figure 1 is a front view of the gate. Fig. 2 is a top plan view thereof. Fig. 3 is a side elevation thereof. Fig. 4 is an enlarged front view of the upper end of the post showing the construction of the pins in detail. Fig. 5 is a front view of the post showing the different positions taken by the panel while being detached from the pin. Fig. 6 is a side elevation of the structure disclosed in Fig. 5. Fig. 7 is a detail view showing the manner in which the panels are released from the pins carried by the posts of the gate.

Referring to the drawings by numerals 1 designates the anchor post to which is secured the sill 2. These anchor posts are secured together by means of the brace 3. Panel engaging posts 4 are supported upon the sill 2 and are braced by means of angle braces 5. Panel engaging pins 6 are secured to the posts 4 in alinement and these pins extend upwardly at thirty degrees and out-

wardly at an angle of approximately sixty degrees so as to prevent the accidental removal of the panels 7 from the pins 6. These panels 7 may be formed of any desired construction, but in the present illustration are formed of rods having eyes 8 which eyes are received by the pins 6 for supporting the rods 7 in their proper position. Provided logs or other matter would be floating upon the stream within which the gate was placed, the gate would immediately drop to the position as shown in dotted lines in Fig. 3, thereby causing the panels to drop off of the pins owing to the fact that the weight of the logs or other matter bearing upon the panels 7 would cause these panels to become readily detached from the pins. By reason of this fact, it will be obvious that the panels will not be greatly injured and broken off as now very often happens where the panels are rigidly connected to the posts and since the panels may be readily recovered after the flooding of the stream, the repairs to the flood gate will be greatly reduced.

In Fig. 7 there is illustrated very clearly the manner in which the eyes 8 are automatically detached from the pins 6, and in view of the fact that the pins 6 are pitched at an angle relative to the posts 4, the panels will be, under normal conditions, held in engagement with the posts 4. While the eyes 8 are dropping off the pins, the same will take the position shown in dotted lines in Fig. 5 to cause the loop to readily clear the outer ends of the pins 6.

What is claimed is:—

1. A gate of the class described comprising a support, a base hingedly secured to said support, posts carried by said base, pins carried by said posts, panels engaging said pins and so secured thereto as to be automatically detached therefrom, when said gate is thrown in an inoperative position.

2. A gate of the class described comprising a plurality of posts, panels carried by said posts, pins carried by said posts and placed in alinement, said pins extending at

an angle from said posts of approximately sixty degrees, eyes formed upon the ends of said panels and engaging said pins whereby said panels will be normally held in engagement with said posts and automatically detached therefrom when said posts are swung downwardly.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

EDWARD S. ^{his} X SHEPPARD.
mark

Witnesses:

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H. E. ABINGTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."