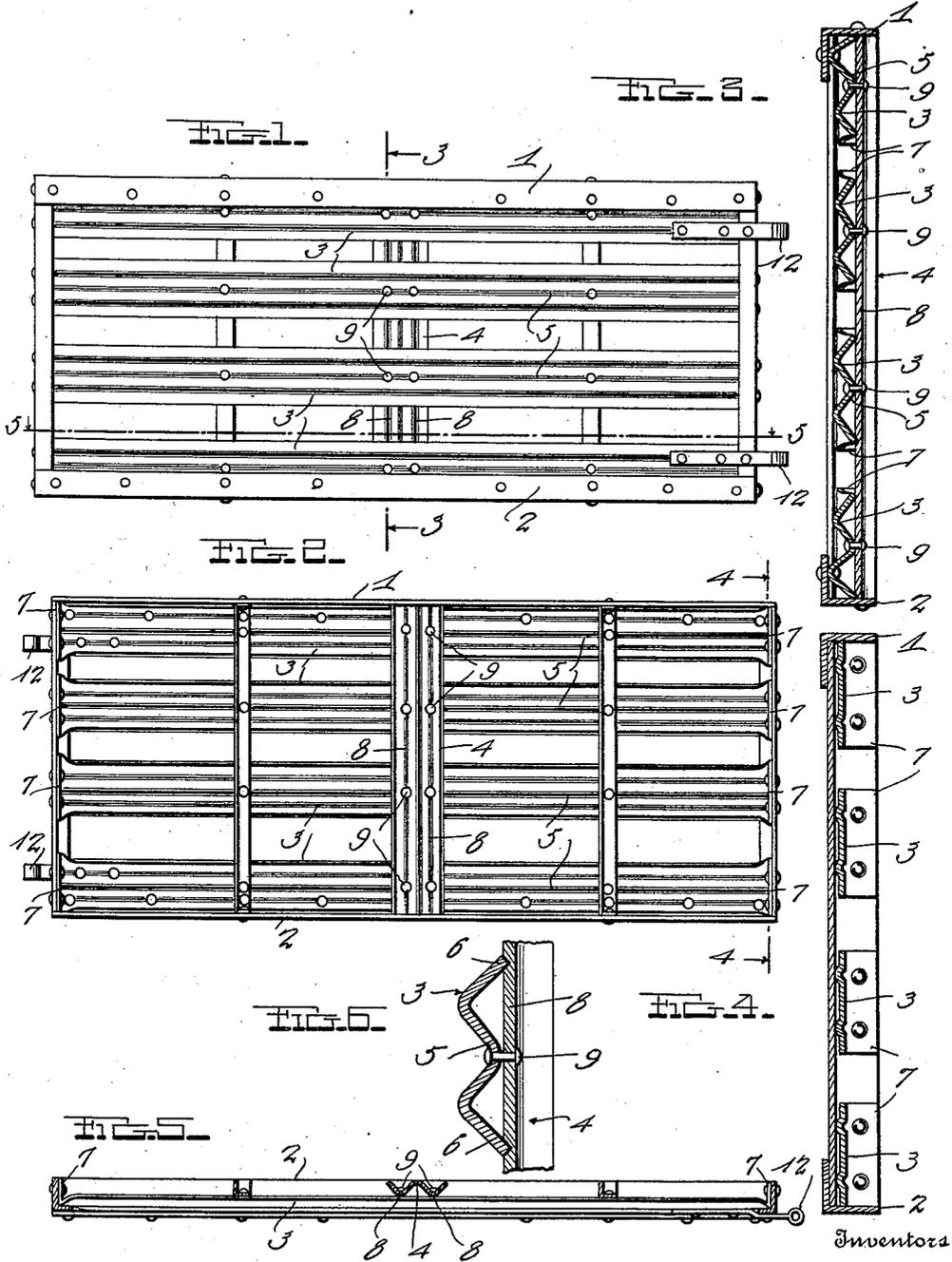


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GATE.

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UNITED STATES PATENT OFFICE.

ALBERT CARTER AND ALBERT E. COMBER, OF GALESBURG, ILLINOIS.

GATE.

1,074,693.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, ALBERT CARTER and ALBERT E. COMBER, citizens of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Gates; and we 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 gates and more particularly to those of metallic construction.

The primary object of the invention is in the construction of a gate of the character described whereby the same is rendered strong, durable and fire-proof and is further capable of withstanding the strain and rough usage to which the same is necessarily subjected.

Another and further object of the invention is in the employment of corrugated metal bars of particular construction or formation whereby a very rigid and binding engagement of the structure is obtained when the fastening devices are employed in the manner described.

With these and other objects in view, the invention consists of certain novel features of construction and the combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings: Figure 1 is a front elevation of the complete invention; Fig. 2 is a rear plan view of the same; Fig. 3 is a vertical section taken on the line 3—3 of Fig. 1; Fig. 4 is a similar section taken on the line 4—4 of Fig. 2; Fig. 5 is a longitudinal section taken on the line 5—5 of Fig. 1; Fig. 6 is an enlarged section showing the manner in which the vertical bar is engaged with the longitudinal bars.

In the illustrative embodiment of the invention a gate is shown composed of a frame constructed of longitudinal upper and lower bars 1 and end bars 2 all of which are of right angular construction and preferably secured at their meeting ends by rivets or other fastening devices whereby a rigid frame is constructed.

In carrying out the invention the construction of the longitudinal bars are of particular formation and in connection therewith a vertical transverse and centrally

disposed bar of similar construction is used in connection with said longitudinal bars and is bindingly attached to the same, the ends of said transverse bar being snugly engaged with the inner projecting edges of the longitudinal portions of the frame previously referred to.

Referring more particularly to the intermediate longitudinal bars 3 and the transverse vertical strengthening bar 4 it will be noted that the same are corrugated and provided with centrally disposed concavo-convex central portions 5 the opposite edges of said bars being outwardly extended at an angle whereby the opposite portions 6 thereof form strengthening ribs along their entire length.

The ends of the bars 3 are flattened as shown at 7 and bent at right angles thereto, rivets or other fastening devices being employed to secure said ends of the bars to the vertical ends of the frame of the gate. One of the inclined edges of the upper and lower longitudinal bars is secured to the similar member of the frame of the gate by bolts or rivets in the usual manner whereby a very rigid and compact construction is obtained. The opposite edges of the inclined portions of the longitudinal bars are bindingly engaged with the rounded projecting ribs 8 of the vertical bars 4 and are bindingly drawn together and securely fastened by rivets 9 or other suitable fastening devices. In uniting the parts as described it will be noted that the opposite edges of the longitudinal bars will be forced into and slightly embedded within the edges of the transverse bar thereby forming a very rigid construction, and further it is to be noted that the concavo-convex portions of the longitudinal bars are slightly out of contact with the ribs 8 of the centrally disposed vertical bars whereby should the parts of the gate become loosened from any cause the rivets 9 may be more tightly engaged with the parts and thereby bring the same into binding contact. Secured to one end of the gate are ordinary loops 12 whereby the same can be attached to a fence in the usual manner.

From the foregoing description it will be seen that a very rigid and practical gate is constructed and that the parts thereof can be subsequently and more rigidly secured if found necessary.

From the above description taken in con-

nection with the accompanying drawings the construction and operation of the invention will be readily understood without requiring a more extended explanation.

5 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 the invention as claimed.

10 We claim as our invention:

A gate comprising a rectangular shaped frame composed of bars which are right angular in cross section, longitudinal corrugated bars secured to said frame and having their opposite ends projected at right angles thereto and secured to the opposite end members of the frame, one edge of the upper and lower longitudinal bars being rigidly secured to the upper and lower members of the frame, a vertical transverse bar of similar construction to the longitudinal

bars, the opposite ends of which are in binding contact with the upper and lower members of the frame, said bars having opposite inclined extensions and a concavo-convex central portion, and means for fastening the longitudinal bars to said transverse bar whereby the parts are rigidly connected, the concavo-convex portion of the longitudinal bars being normally out of contact with the recessed portions of the transverse bar whereby the parts of the gate are bindingly engaged.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

ALBERT CARTER.
ALBERT E. COMBER.

Witnesses:

A. K. HARDY,
LOUISE RICE.

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