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H. O. WOLFE ET AL
PANEL FOR USE AS A GATE

2,515,754

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Fig. 1.

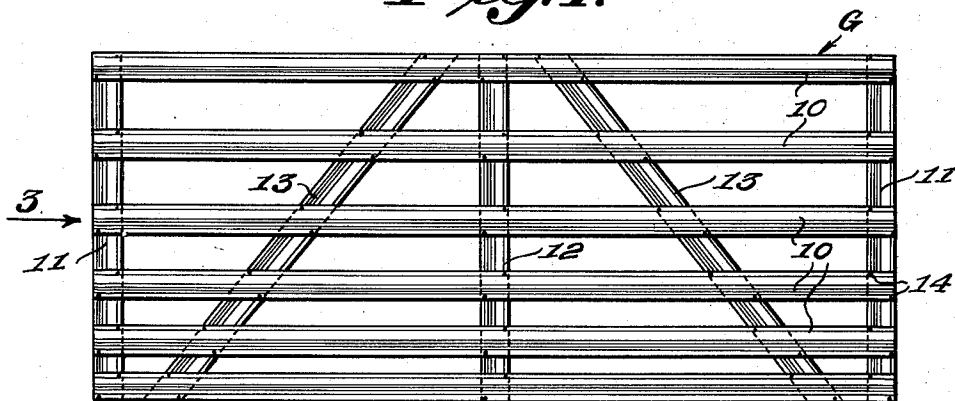


Fig. 2.

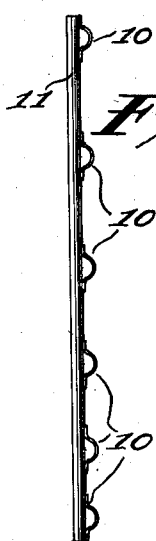
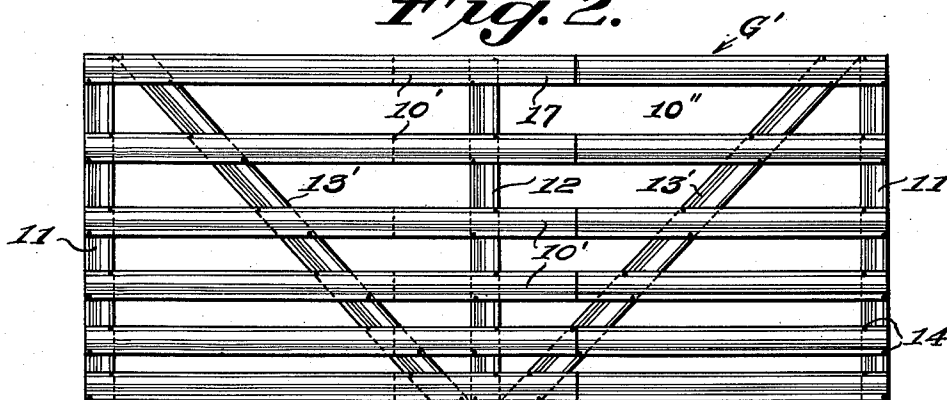


Fig. 3.

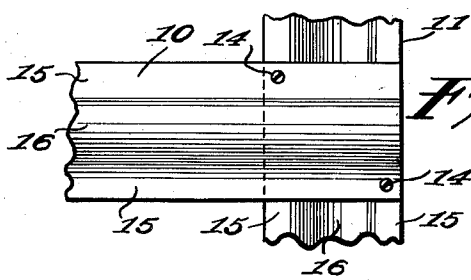


Fig. 4.

Fig. 5.



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PANEL FOR USE AS A GATE

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2 Claims. (Cl. 256—24)

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This invention relates to a panel for use as a gate.

More particularly, the invention is concerned with a gate panel for use in fences, driveways, and the like.

A primary object of the invention is to provide a gate panel constructed of a relatively small number of straight metallic flanged channel sections, each of which is arched intermediate its edges whereby the panel is not only simple in construction but is endowed with the necessary strength required of structures of this kind.

A further object of the invention is to provide a gate panel constructed of a relatively small number of aluminum flanged channel sections, whereby the panel is light in weight as well as being capable of withstanding the action of weather elements without injury thereto.

A still further object of the invention is to provide a gate panel comprising a relatively small number of straight flanged channel sections having bolt-receiving apertures therein at selected points and for registry of apertures in some of the sections with apertures in other of the sections, whereby the sections are capable of ready assembly by a comparatively unskilled person.

Other objects and advantages of the invention will become apparent in the course of the following detailed description, taken in connection with the accompanying drawing, wherein

Figure 1 is a side elevational view of the improved gate panel in accordance with one structural embodiment thereof.

Fig. 2 is a similar view of another structural embodiment of the invention.

Fig. 3 is an end elevational view as observed in the direction of arrow 3 on Fig. 1.

Fig. 4 is a substantially enlarged fragmental side elevational view.

Fig. 5 is an end view of one of the several flanged channel sections entering into the gate panel construction.

Referring now in detail to the drawing, G designates the improved gate panel in one structural embodiment thereof.

The gate panel G comprises a plurality of vertically spaced horizontal and parallel sections 10, vertically disposed end sections 11, an intermediate vertical section 12 and a pair of diagonal brace sections 13 disposed between the end and intermediate sections.

The sections 10, 11, 12 and 13 are of like cross sectional form and dimensions, and are preferably constructed of aluminum, each including parallel edge flanges 15 and an intermediate

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The horizontal sections 10 have portions of their flanges 15 in contact with portions of the flanges 15 of sections 11, 12 and 13, with sections 10 disposed at one side of a vertical plane, and sections 11, 12 and 13 at the opposite side of such plane.

The flanges 15 are provided with apertures for the reception of screw bolts 14 in the assembly of the gate panel from the various sections, which may be readily transported in relatively small bundle form, and the sections are bolted together at all joints or intersections thereof, as is illustrated in Figs. 1 and 2.

By the provision of the arches 16 in the flanged sections, they may be formed from relatively light gauge material, and by utilizing aluminum as such material, the gate panel will be light in weight while still possessing sufficient strength to prevent any possible sagging thereof.

The brace sections 13 extend diagonally between the vertical sections 11 and 12, and such brace sections may converge from their lower ends, which are adjacent end sections 11, to their upper ends, which are adjacent the intermediate section 12.

The brace sections in the modified gate panel G', as indicated at 13' in Fig. 2, are disposed oppositely to those in Fig. 1, and either arrangement is satisfactory with the improved section construction utilized in the gate panel.

In the event that a relatively long gate panel may be required, the horizontal sections may be disposed in aligned pairs 10' and 10'' and have their ends adjacent the intermediate section 12 overlapped, as indicated at 17 in Fig. 2, thereby providing a reinforced mid-section in the gate panel.

The horizontal sections are preferably closer at the bottom than at the top of the gate panel.

While we have disclosed our invention in accordance with certain specific embodiments thereof, such is to be considered as illustrative only, and not restrictive, the scope of the invention being defined in the following claims.

What we claim and desire to secure by U. S. Letters Patent is:

1. A gate panel comprising a plurality of vertically spaced horizontal sections, opposite end vertical sections, a vertical section intermediate the end sections, a diagonal brace section intermediate the intermediate section and each end section, each of said sections being arched intermediate its edges and provided with parallel attaching flanges at its edges, the flanges of all the sections engaging at spaced points in a single

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vertical plane, and means securing the flanges of opposed sections at said points.

2. A gate panel comprising a plurality of vertically spaced horizontal sections, a pair of opposite end vertical sections, a vertical section intermediate the end sections, a diagonal brace section between the intermediate section and each end section, and securing means releasably fastening the sections together, each horizontal section comprising a pair of sections having adjacent ends thereof overlapped to a substantial distance on each side of said intermediate vertical section.

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