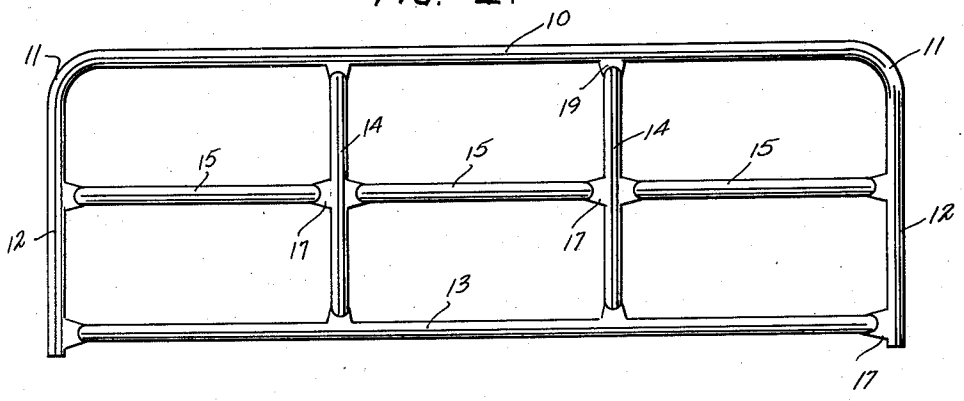
Nov. 7, 1950 J. D. FLORY 2,529,008

GATE

Filed Oct. 14, 1947

FIG. 1.



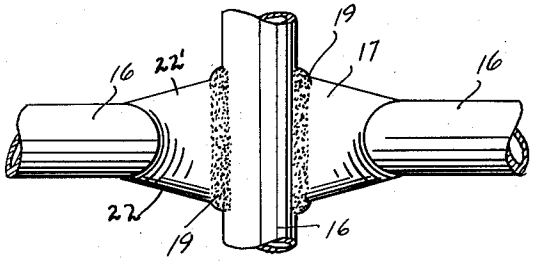


FIG. 2.

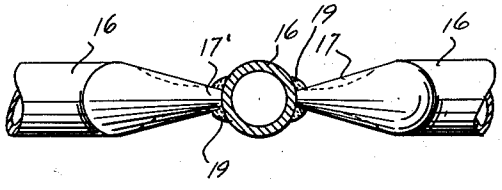


FIG. 3.

FIG. 4.

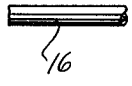


FIG. 5.

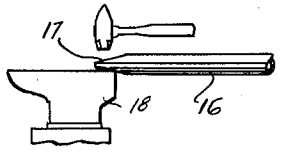
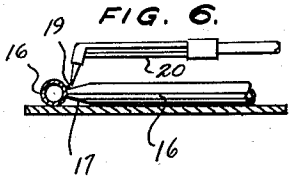


FIG. 6.



INVENTOR.
JESSE D. FLORY,
BY
McMorrow, Berman & Davidson
ATTORNEYS.

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GATE

Jesse D. Flory, Eaton, Ohio

Application October 14, 1947, Serial No. 779,676

2 Claims. (Cl. 39—1)

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This invention relates to a gate.

A primary object of this invention is the provision of an improved gate, such as is utilized on farms or the like, characterized by relatively great strength and consequent freedom from sagging or disalignment.

An additional object of the invention is the provision of an improved gate characterized by the absence of supplemental reinforcing members.

Other objects will in part be obvious and in part be pointed out as the description of the invention proceeds, and shown in the accompanying drawings, wherein there is disclosed a preferred embodiment of this inventive concept.

In the drawings:

Figure 1 is a side elevational view of a gate constructed in accordance with the instant invention.

Figure 2 is an enlarged fragmentary view disclosing the connection of component parts of the gate.

Figure 3 is a top view of the structure disclosed in Figure 2.

Figure 4 is a fragmentary view showing one of the elements utilized in construction in its original state.

Figure 5 is a schematic view disclosing one step in the method of forming the gate.

Figure 6 is a schematic view disclosing a further step in the method of forming the gate.

Similar reference characters refer to similar parts throughout the several views of the drawings.

Referring now to the drawings in detail, one form of gate embodying features of the instant invention may be comprised of a U-shaped frame including a horizontal bight portion 10, bent at its extremities, as at 11, to form vertical leg frame portions 12. The lower portions of the vertical parts 12 are connected by a bar 13 positioned longitudinally of said frame, which in turn is connected to the member 10 by second bars or uprights 14 positioned transversely of and within said frame. If desired, the uprights 14 may be connected to the portions 12 and to each other by horizontal members or third bars 15 positioned longitudinally of the bight of said frame and spaced from said first bar 13.

In the manufacture of the gate, sections of pipe 16 are first measured and cut to the desired length, as shown in Figure 4, and the ends 17 flattened to a thin edge, as indicated at 17', in any desired manner, as by means of an anvil 18

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and sledge 19, as shown in Figure 5, to provide fish-tails substantially wider than the diameter of the pipe. The thin edge 17' of each fishtail has its sides 22 and 22' converging toward the other end of the fishtail, Figure 2. The flattened ends or fish-tails 17 are then adapted to be welded along both sides by welds 19 to an adjacent section of pipe 16. The welding operation is disclosed in Figure 6, wherein two sections of pipe 16, one having a fish-tail end 17, are adapted to be connected by welds 19', using any suitable welding implement 20.

By flattening the ends of the pipe sections, to provide the fish-tail, 17, it will be noted that a firm and secure welded connection of relatively great strength is provided between the component parts of the gate structure, the flattened ends providing relatively large contact surfaces, and, due to the elongated condition thereof, facilitate the ready welding of the component parts.

Obviously, a gate constructed in this manner will be of relatively great strength, and consequently will need no reinforcement other than its component parts, as indicated in Figure 1.

From the foregoing it will now be seen that there is herein provided an improved gate, characterized by an improved method of manufacture, which accomplishes all the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

1. A gate comprising a U-shaped frame having two legs and a bight connecting one end of said legs together, a bar positioned longitudinally of the bight of said frame and intermediate the legs of said frame inwardly of and spaced from the free end thereof, a fish tail provided with a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said bar with the other end fixedly secured to the adjacent end of said bar, the thin edge one end of each of said fish tails being engaged with the portion inwardly of and spaced from the free end of the adjacent leg of said frame and secured by a weld thereto, a second bar positioned transversely of and within said frame intermediate and spaced from the

legs of said frame, and a fish tail having a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said second bar with the other end fixedly secured to the adjacent end of the latter bar, the thin edge one end of one of said fish tails on said second bar being engaged with and secured by a weld to the adjacent portion of the bight of said frame and the thin edge one end of the other of said fish tails on said second bar being engaged with and secured by a weld to the adjacent portion of said first bar.

2. A gate comprising a U-shaped frame having two legs and a bight connecting one of said legs together, a bar positioned longitudinally of the bight of said frame and intermediate the legs of said frame inwardly of and spaced from the free ends thereof, a fish tail provided with a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said bar with the other end fixedly secured to the adjacent end of said bar, the thin edge one end of each of said fish tails being engaged with the portion inwardly of and spaced from the free end of the adjacent leg of said frame and secured by a weld thereto, a second bar positioned transversely of and within said frame intermediate and spaced from the legs of said frame, and a fish tail having a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said second bar with the other end fixedly secured to the adjacent end of the latter bar, the thin edge one end of one of said fish tails on said second bar being engaged with

and secured by a weld to the adjacent portion of the bight of said frame and the thin edge one end of the other of said fish tails on said second bar being engaged with and secured by a weld to the adjacent portion of said first bar, a third bar positioned longitudinally of the bight of said frame and spaced from said first bar, and a fish tail provided with a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said third bar with the other end fixedly secured to the adjacent end of said third bar, the thin edge one end of each of said fish tails on said third bar being engaged with the portion of the adjacent leg of said frame and secured by a weld thereto.

JESSE D. FLORY.

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