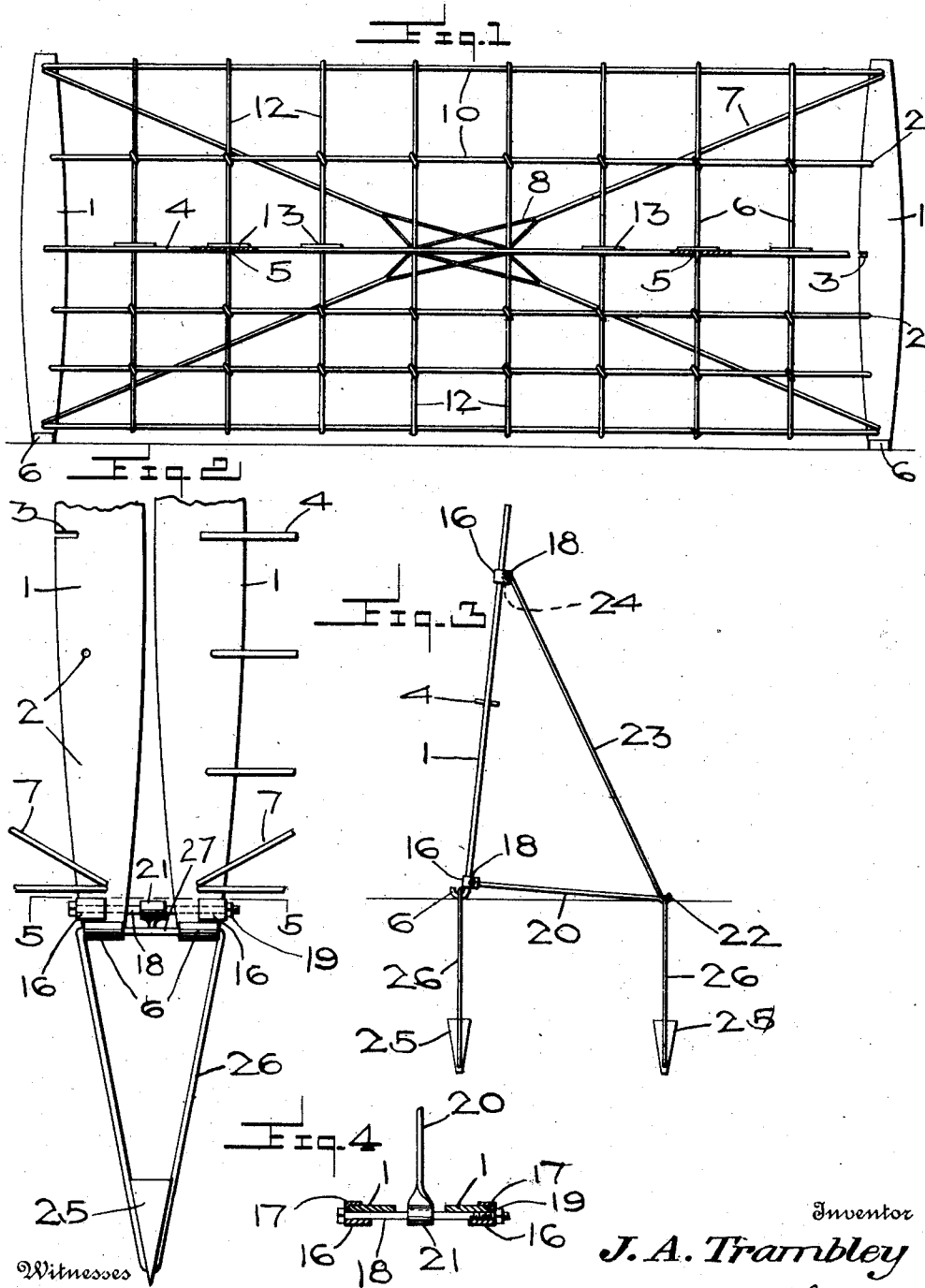


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PORTABLE FENCE.
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973,589.

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UNITED STATES PATENT OFFICE.

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PORTABLE FENCE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH A. TRAMBLEY, a citizen of the United States, residing at Maxbass, in the county of Bottineau and State of North Dakota, have invented certain new and useful Improvements in Portable Fences, of which the following is a specification.

This invention relates to fences and more particularly to portable fences, and has for its object to provide a fence which will be so constructed that it may be easily and quickly set up or taken down, and which will be strong and durable.

Another object of my invention is to provide a light, simply constructed fence comprising a plurality of similar sections, adjustably connected to one another and held in a slightly inclined position.

Another object is to provide a fence containing relatively few parts, and which may thus be constructed at a relatively low price.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is an elevational view of a fence section constructed in accordance with the present invention, Fig. 2 shows a fragmentary portion of two connected fence sections, Fig. 3 shows an end elevation disclosing the position of the brace bars, Fig. 4 shows a section on the line 5-5 of Fig. 2.

In the drawings the numeral 1 designates a sheet metal end bar which is provided with a plurality of apertures 2 and a centrally positioned slot 3. Each fence section includes two such similar end bars.

Held within the slots 3 of the end bars 1, is a perforated brace bar 4 provided with a plurality of lengthwise disposed openings 5, these openings being arranged to hold and receive the stay wires 12. This brace bar has its ends slotted so that the slotted end of this bar may be engaged within the slots of the end bars 1 as is disclosed in Fig. 1. Each of these end bars has its lower end recurved as is shown at 6 in Fig. 4 while extending obliquely from the upper end of one bar to the lower end of the opposite bar is

a guy wire 7 two such guy wires being used, these wires being held crosswise. Each guy wire is made up of a plurality of strands which are separated at their centers and carried through the brace bar 4 in two sections as is disclosed at 8 in Fig. 1. This construction adds to the rigidity of the fence sections. In order to provide a maximum of rigidity with a minimum of weight, these end bars 1 as well as the transverse bar 4 may be made of channel iron. As shown in Fig. 1 the end bars 1 are wider at their centers and gradually decrease toward their ends. This is also true of the brace bar 4.

As shown, the end bars 1 support a plurality of fence strands 10 two such strands being shown as being positioned above the brace bar 4 and three below. The number of fence strands or wires may however be increased or diminished.

Extending from the upper fence member 10 and looped about each intermediate member 10 are the stay wires 12, these stay wires carrying the spurs 13 which may be made of sheet metal and be triangular or be in the form of a star. These spurs are revolvably carried upon these stay wires as disclosed. These fence sections are of such a length that they may be conveniently handled.

In order to secure one fence section to the other, I employ two similar shackle plates 16, each having a recurved ear 17 as shown in Fig. 4, these plates having an aperture arranged to receive the adjusting bolt 18 carrying the nut 19. Each bolt carries two such shackle plates, these plates being arranged to clasp the end bars 1 as is disclosed in Fig. 5. In order to hold these fence sections in an approximately vertical position, I employ a bracket comprising the lower horizontal member 20 having the terminal eye 21 at one end, and a terminal hook 22 at the remaining end and continued from this hook 22 and integral therewith, is the oblique frame member 23 which at its upper end also terminates in an eye 24. Each of these eyes 21 and 24 is arranged to carry one of the adjusting bolts 18 as is shown in Fig. 3. The length of the oblique bracket member 23 is such that when the fence section is secured thereto the same is held in a slightly inclined position as disclosed in Fig. 3. The various fence sections are secured by means of these shackle plates 16 in such a manner that the end bars will be held in spaced relation permitting the bars to be drawn toward one

another in tightening the fence sections after they have become expanded, as well as permitting the sections to contract, this loss in length being compensated by means of the adjusting bolts 18.

From the foregoing it will be seen that the various fence sections are held in an upright position by means of a bracket including a horizontal and an obliquely held member, these members at their ends carrying an adjusting means including the bolts and shackle plates as has been described.

In order to hold the fence sections in position as well as securing the supporting brackets, I employ an anchor block 25 which is in the shape of a pyramid, the point of which has an aperture arranged to receive the securing wire or cable 26, the ends of this securing wire being secured above to form the horizontal portion 27 of a length approximately equal to the width of two end bars 1, these horizontal wire portions 27 being arranged to be held within the hook terminations 6 of the bars 1. These anchor blocks may be driven into the ground by any suitable means, not shown.

The operation of securing two end members 1 is accomplished in driving an anchor immediately below the point to be occupied by the recurved ends 6 of these end bars. After the anchor blocks have been driven into the earth a suitable distance, the fence members are placed in position so that the hook 6 comes below the securing wire portions 27 when the anchor is finally driven home by mauling the driving bar. After the fence member has been properly secured this bar 1 is withdrawn when the earth is properly tamped above the anchor block. The supporting brackets are secured in a similar manner by means of one of these anchor blocks and connected securing wires.

While I have shown and described each fence section as including a centrally held brace bar 4 and two end bars 1, this structure may be modified in eliminating the centrally held brace bar 4 and supporting the fence sections by means of the brackets in the manner described. The adjustment however, is effected in a similar manner.

An incident of convenience to this arrangement of sectional fencing is that the fence may be removed by simply releasing the adjusting bolts and carrying the lower hooked end 6 out of engagement with the securing wires. It will be seen that by joining the two adjacent end bars and sup-

porting brackets by a securing wire of the construction shown, any rotative pivotal movement of the end bars about the bolt 18, independent of one another is prevented. These fence sections are simple and inexpensive in construction and both durable and efficient in operation, and the adjustment may be made with ease, accuracy and despatch.

Having thus described my said invention, what I claim as new and desire to secure by United States Letters Patent is:

1. A fence structure comprising two similar end bars each having a central slot and a plurality of alining apertures, of a perforated brace bar having slotted ends held within said central slots of said end bars, fence wires connecting said end bars and held parallel to said brace bar, two guy wires crosswise secured to said end bars and passing through perforations within said brace bar, and stay wires secured to said fence wires and extending through said bar perforations.

2. A fence structure comprising two similar end bars each having a central slot and a plurality of alining apertures, of a perforated brace bar having slotted ends held within the slots of said end bars, fence wires connecting said end bars and held parallel to said brace bar, two guy wires crosswise secured to said end bars, and passing through perforations within said brace bar, stay wires secured to said fence wires and extending through said bar perforations, an anchor block, and a securing wire extending from said anchor block and being secured to said end bars.

3. A fence structure comprising two similar end bars, each having one or more slots and a plurality of apertures, a perforated brace bar having slotted ends held within the slots on said end bars, fence wires connecting said end bars, stay wires secured to said fence wires and at right angles thereto, guy wires secured to said end bars in such a manner as to cross the fence wires and stay wires, said perforations in said brace bars being for the purpose of passing there-through such fence, stay or guy wires as may cross them.

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

JOSEPH A. TRAMBLEY.

Witnesses:

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BERTHA OLSON.