

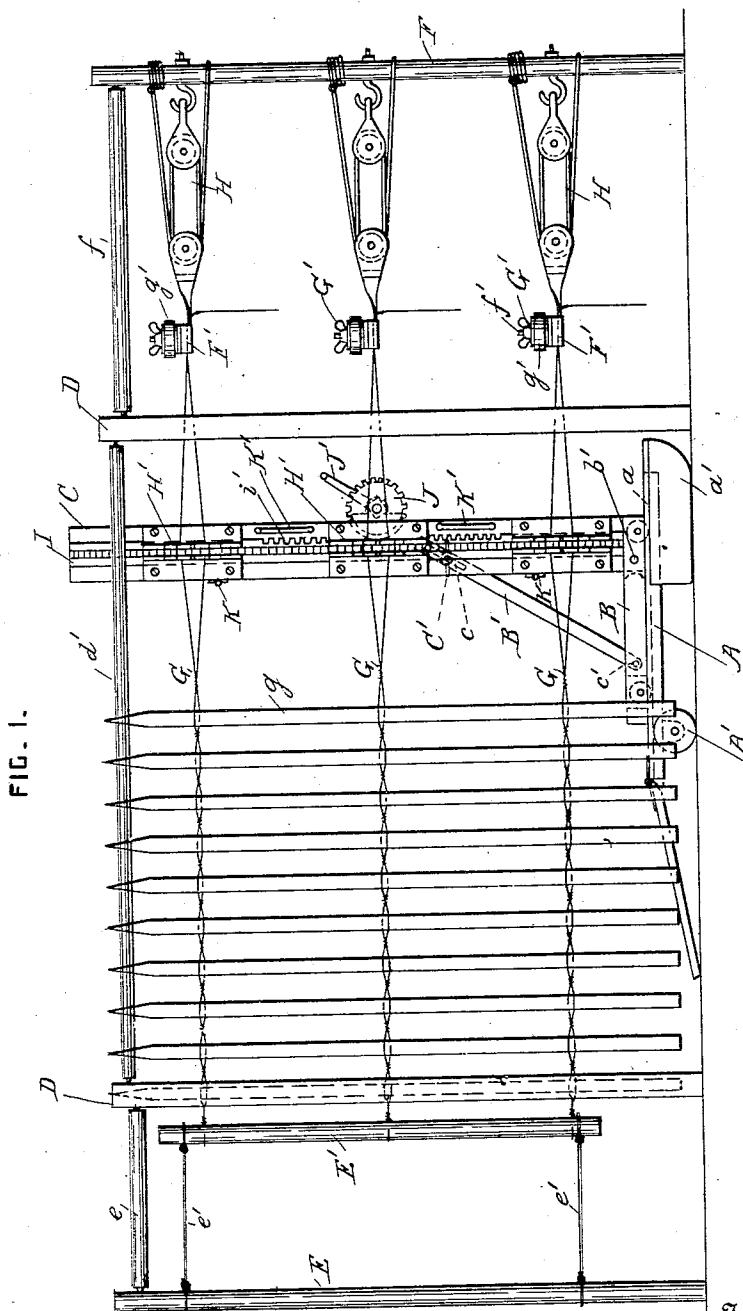
(No Model.)

2 Sheets—Sheet 1.

F. H. DUMBAULD.
WIRE AND PICKET FENCE MACHINE.

No. 557,778.

Patented Apr. 7, 1896.



Witnesses

J. Spring Pole
Walter Allen

Inventor

Frederick H. Dumbauld.

By Attorney

Robert W. Jenner.

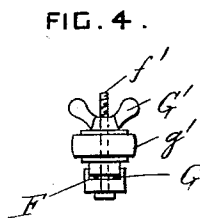
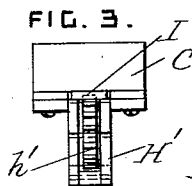
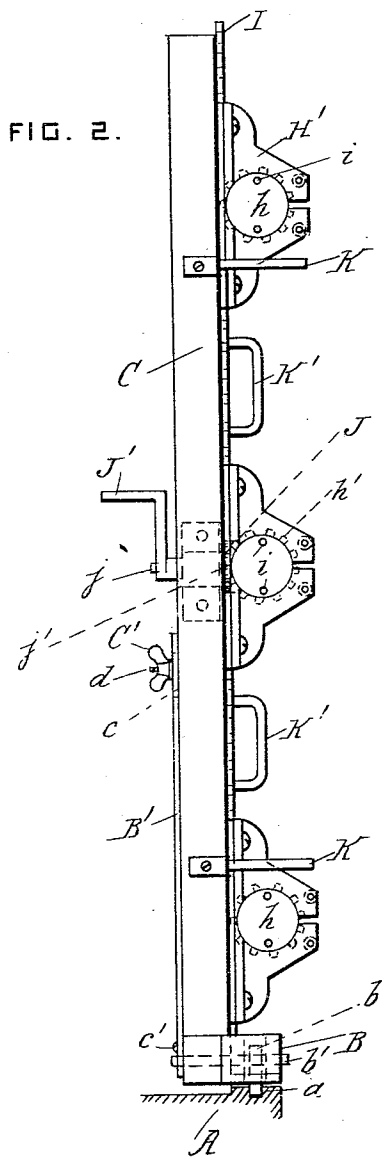
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2 Sheets—Sheet 2

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UNITED STATES PATENT OFFICE.

FREDERICK H. DUMBAULD, OF McCUNE, KANSAS.

WIRE-AND-PICKET-FENCE MACHINE.

SPECIFICATION forming part of Letters Patent No. 557,778, dated April 7, 1896.

Application filed October 15, 1895. Serial No. 565,771. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. DUMBAULD, a citizen of the United States, residing at McCune, in the county of Crawford and State of Kansas, have invented certain new and useful Improvements in Picket-Fence Machines; and I do hereby 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 machines for twisting the wires of picket-fences; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a front view of the machine. Fig. 2 is a side and Fig. 3 is a plan view of the wire-twister. Fig. 4 is an end view of the tension-block for the wires.

A is a low carriage provided with a grooved guide *a* on its upper surface. The carriage A is supported at one end by the wheels A' and at the other end by the runners *a'*. The wheels and runners permit the carriage to be slid along the ground without difficulty and the runners prevent the carriage from slipping or sliding when not required to do so, as they afford a longer base than wheels.

B is a base-plate provided with rollers *b*, which run in the guide *a*.

C is the vertical upright of the wire-twister, pivoted to the base B by the pin *b'*.

B' is a brace provided with a slot *c* at one end. The lower end of the brace is pivoted to the base by the pin *c'*, and *d* is a pin which projects from the upright and engages with the slot *c*.

C' is a thumb-nut screwed on the pin *c'* for clamping the brace after the upright has been set in a perpendicular position.

D are two fence-posts secured in the ground in any approved manner, and *d'* is a stretcher-bar placed between the tops of the posts D.

The fence may be made of any desired length; but only one panel of it is shown in the drawings.

E is an anchor-post secured in the ground at one end of the fence, and *e* is a brace between the top of the post E and the post D at that end of the fence.

E' is the anchor-bar for the picket-wires, attached to the post E by the wires or rods *e'*.

F is the tension-post secured in the ground at the other end of the fence, and *f* is a brace between the post E and the fence-post D at that end of the fence.

G are the wires which fasten the pickets in position, and *g* are some of the pickets.

F' are the tension-blocks, each formed of two plates coupled together by a bolt *f'*.

G' is a thumb-nut on the bolt *f'*, and *g'* is a thick washer of india-rubber placed between thin metallic washers and interposed between the top plate of the tension-block and the thumb-nut.

Each pair of wires G is fastened at one end to the anchor-bar and passes between the plates of a tension-block at the other end.

H is an ordinary rope tackle securing each tension-block to the tension-post. The wires are drawn tight by the tackle and the tension is regulated by the thumb-nut. The wires slip in the tension-block when strained to the prearranged limit.

H' are twisting-brackets, each formed of two similar halves secured together and to the upright C. A twisting-disk *h* is journaled in each bracket H', and *h'* is a toothed wheel formed on the central portion of the twisting-disk and revolving between the side plates of the twisting-bracket. The disk *h* is provided with two eccentric holes *i* for the wires to pass through.

I is a toothed bar sliding in the twisting-brackets against the front face of the upright and gearing into all the wheels *h'*. Teeth *i'* are also formed on the side of the bar I.

J is a toothed wheel secured on a shaft *j*, which is journaled in a bracket *j'*, secured to the side of the upright. A crank-handle J' is secured to the shaft *j*, and the wheel J gears into the teeth *i'*.

K are beaters secured to the upper and lower parts of the upright and projecting forward past the pickets.

The use of the anchor post and bar enables the picket fence to be started at the end post and secured thereto. The pickets are inserted between the wires and the wires are all twisted simultaneously by turning the crank-handle. The wires are twisted in opposite directions between the successive pickets. The pickets are pushed laterally into position by sliding the upright upon the carriage. The beaters strike the end picket, and K' are han-

dles secured to the upright for sliding it back and forth. The wires slide between the plates of the tension-blocks as the pickets are secured in position.

- 5 The tension-post beyond the end of the fence permits the fence to be formed up to the end post, so that the end picket can be secured to the end post before the tension is slackened.

10 What I claim is—

1. In a picket-fence machine, the combination, with a carriage provided with wheels at one end and runners at the other, of a base-plate slidable on the carriage, an upright carrying wire-twisting devices and pivoted to the said base, a pin projecting from the upright, a brace pivoted to the base at one end and provided with a slot at its other end engag-

ing with the said pin, and a thumb-nut screwed on the said pin and operating to secure the brace after the upright has been set perpendicular, substantially as set forth. 20

2. In a picket-fence machine, the combination, with a slidable carriage, wheels supporting one end of the carriage, and runners supporting its other end; of a base slidable on the said carriage, and an upright and wire-twisting devices carried by the said base, substantially as set forth. 25

In testimony whereof I affix my signature 30 in presence of two witnesses.

FREDERICK H. DUMBAULD.

Witnesses:

P. P. ROBERTS,
WM. H. HORNER.