(No Model.)

J. ETTIG.

BRUSH BLOCK.

No. 434,179. Patented Aug. 12, 1890.

Fig 1

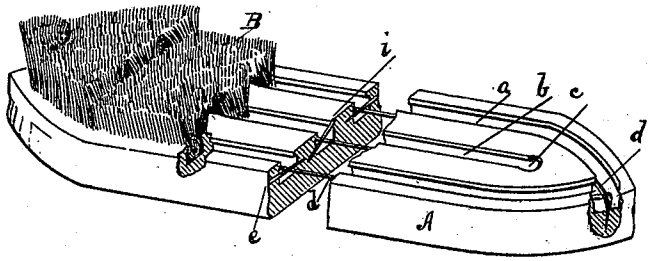
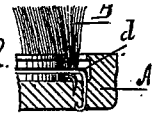


Fig. 2.



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UNITED STATES PATENT OFFICE

JOHN ETTIG, OF DETROIT, MICHIGAN, ASSIGNOR TO GEORGE C. WETHERBEE, OF SAME PLACE.

BRUSH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 434,179, dated August 12, 1890.

Application filed January 25, 1888. Serial No. 261,871. (No model.)

To all whom it may concern:

Be it known that I, JOHN ETTIG, a citizen of the United States, residing in the city of Detroit, county of Wayne, and State of Michigan, have invented certain new and useful Improvements in Brush-Blocks; 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.

My invention relates to brush-blocks.

It has for its object to provide a block which shall be simple and strong of construction, inexpensive of production, and to which the stock may be easily secured.

With these objects in view the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, wherein like letters of reference indicate corresponding parts, Figure 1 is a perspective view showing the stock or fiber secured in one end of my improved brush-block. Fig. 2 is a sectional view of a portion of the brush-block, showing the manner of securing the rider-wire in outer groove.

I carry out my invention as follows:

A represents my improved brush-block formed of a single integral piece of wood or other suitable material. The head is constructed with a longitudinal groove *b*. The groove may be of any desired shape in cross-section.

a denotes the outer groove, which extends entirely around the face or under side of the brush and communicates at each end with an end socket. The longitudinal groove communicates at its ends with sockets *c*, bored or otherwise formed therein.

B represents the stock or fiber engaged in the head. *d* represents the rider-wire, which, when secured in the surrounding groove *a*, has its ends overlapped and inserted or driven into the brush-block, it being understood that the stock or fiber is bent over the rider-wire before the latter is placed in the groove. The longitudinal groove *b* of course receives a rider-wire to conform to its length. The stock and rider-wire are simultaneously forced into the groove and its communicating end sockets.

In the process of engaging the stock and its rider-wire or binder in the longitudinal groove of the brush-block the ends of the wire are bent over into the end sockets, it being, however, unnecessary to force the ends of the binder into the wood, as shown in Fig. 2, as nails or brads *i* are driven into and through the walls of the groove, so as to engage under the rider-wire and prevent the displacement of the same. The end sockets enable me to bunch or thicken the stock at the ends of the brush, thereby stiffening the same at those points which are subjected to the most wear.

Having thus described my invention, I claim—

1. A brush-block provided with grooves to receive the brush-stock, said grooves communicating with sockets.

2. A brush-block provided with a longitudinal groove having end sockets communicating therewith, and in combination therewith the stock or fiber and a single binder for said groove and its end socket.

3. A brush-block provided with grooves communicating with sockets, a filling of brush-fiber folded intermediate its ends and having its folds inserted in the grooves, binding-wires placed within the folds of the brush-fiber and nails driven into the block across the wires to retain the wires and fiber within the grooves.

In testimony that I claim the above as my invention I have hereunto set my hand, at Detroit, Michigan, this 17th day of January, A. D. 1888.

JOHN ETTIG

In presence of—
E. W. ABBOTT,
F. W. MACQUESTEN.