

March 29, 1932.

A. KAMBER

1,851,708

BROOM NAILING MACHINE

Filed Oct. 20, 1930

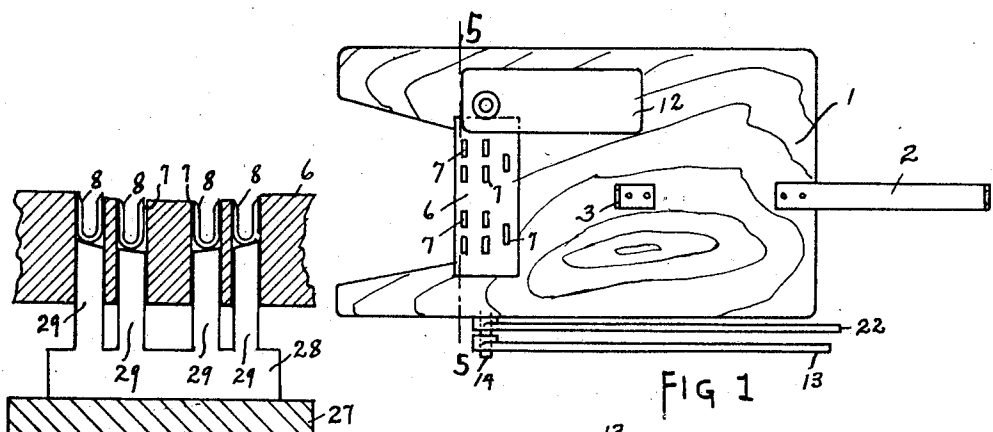


FIG 1

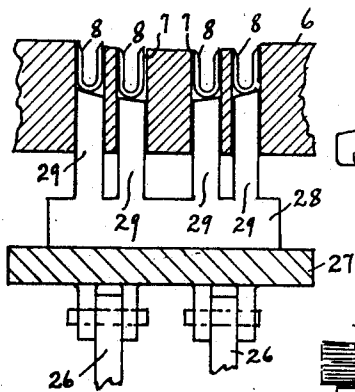


FIG 5

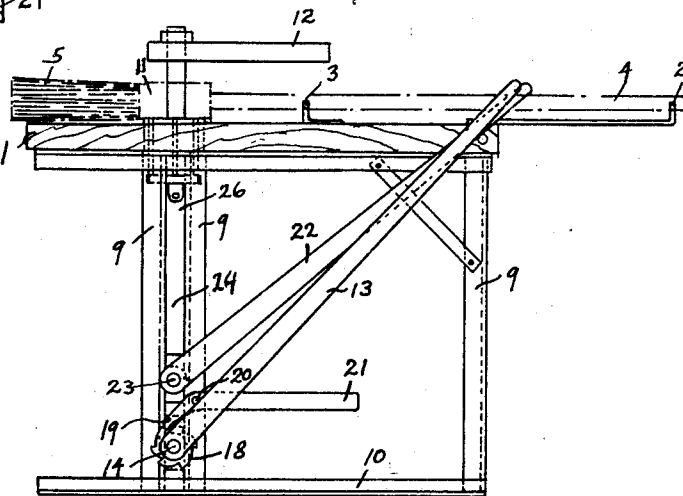


FIG 2

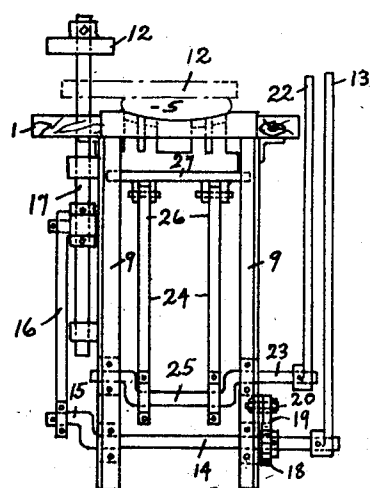


FIG 3

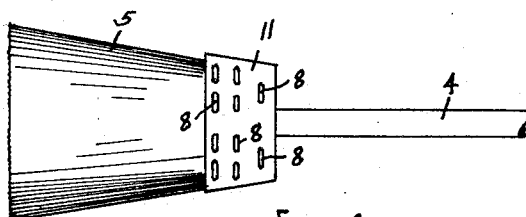


FIG 4

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# UNITED STATES PATENT OFFICE

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## BROOM NAILING MACHINE

Application filed October 20, 1930. Serial No. 489,949.

This device relates to the manufacture of brooms.

The principal object of this invention is to provide a device which drives and clinches nails or staples through a metallic sleeve, thereby holding the brush material in a sure and desirable manner.

Another object of the invention is to provide a device which is simple in construction and in use.

A further object is to provide a device which is adapted to be used by an operator that is blind, in order that brooms may be manufactured without the hazard which ordinarily is present when a blind operator operates a machine.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a top plan view of the device.

Figure 2 is a side elevation of the device.

Figure 3 is an end view of the device.

Figure 4 is a view of a broom secured by the use of my device.

Figure 5 is a detail view of Figure 1.

By referring to the drawings it will be seen that there is provided a table member 1. This table member 1 is provided with rests 2 and 3 and a handle of the broom 4.

By referring to Figure 2 it will be seen that a broom 5 is in position upon the table 1. Before the broom 5 is placed upon the table 1 a die block 6, which is provided with a plurality of staple channels 7, is loaded with staples 8. (See Fig. 5.)

It will be seen by referring to Figure 2 that the table 1 is provided with suitable stand members 9 and a base member 10.

In operating the device the broom 5 is first fitted with a metallic sleeve 11 which is used for the purpose of holding the upper

ends of the broom 5 in a desirable broom form and also for the purpose of securing by pressure the handle 4. The broom 5 is now placed upon the table 1 so that the metallic sleeve 11 is directly above the die block 6. The operator now swings a metallic clinching block 12 directly over the metallic sleeve 11 and above the die block 6. The operator now operates a lever 13 which is secured to a shaft 14 and is provided with a crank end 15 upon which is secured a connecting rod 16 which is utilized in operating a slide rod 17 which carries the clinching block 12 up or down, as desired, by moving the lever 13. The shaft 14 also carries a ratchet wheel 18 which is secured thereto and functions with a dog 19 pivoted by means of a pivot pin 20 to one of the stand members 9. This dog 19 is provided with an operating arm 21 which may be utilized in releasing the dog 19 from the dog wheel 18 when desired.

By referring to Figure 3 it will be seen that when the operator swings downwardly a second lever 22, a shaft 23 is caused to rotate and to move a pair of connecting rods 24 upwardly due to an eccentric 25 formed on the shaft 23. The upper ends 26 of these connecting rods 24 are pivotally secured to a carrier block 27 to which is secured a staple driver 28, provided with a plurality of push fingers 29 which functions within the plurality of staple channels 7. As these plurality of push fingers 29 are forced upwardly they drive the plurality of staples 8 through the metallic sleeve 11 and are clinched against the clinching block 12.

What I claim is:—

1. In a device of the class described comprising a broom stapling machine consisting of a table member, handle rests secured to said table member, a die block carried by said table member, a plurality of staple channels formed in said die block for the reception of staples, a clinching block functioning above said die block in a movable manner in order that the same may be swung out of the way in removing or placing a broom upon said table member, means for forcing said staples positioned in said staple channels upwardly through a metallic sleeve and broom

portion in order to clinch the same against said clinching block, substantially as described.

2. In a device of the class described, a table  
5 member, handle rests secured to said table  
member, a die block carried by said table  
member, a plurality of staple channels  
formed in said die block for the reception of  
staples, a clinching block functioning above  
10 said die block in a pivoted manner, a shaft,  
an operating lever secured to said shaft, a  
crank end formed on said shaft, a connecting  
rod, a slide rod, said slide rod provided for  
the purpose of carrying said clinching block  
15 up or down by movement of said lever, a  
ratchet wheel carried on said shaft, means for  
releasing said ratchet wheel, an eccentric  
shaft, a lever attached to said eccentric shaft,  
a pair of connecting rods positioned on said  
20 eccentric shaft, upper ends of said connect-  
ing rods secured to a carrier block, a staple  
driver, a plurality of push fingers function-  
ing with staples in said staple channels for  
the purpose of forcing upwardly said staples  
25 through a metallic sleeve and through a  
broom portion therein and to cause the same  
to be clinched against said clinching block,  
substantially as described.

In testimony whereof I affix my signature.

ADAM KAMBER.