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NAIL BUNCHER AND ASSORTER.
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1,331,901.

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Fig. 2.

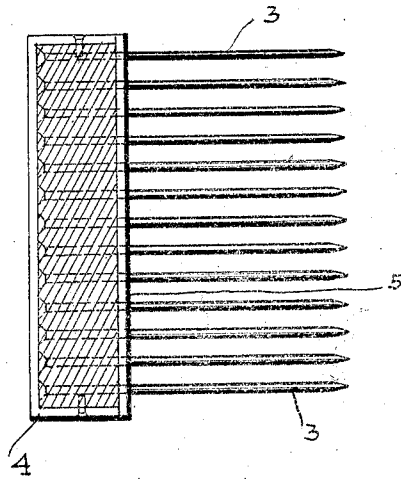
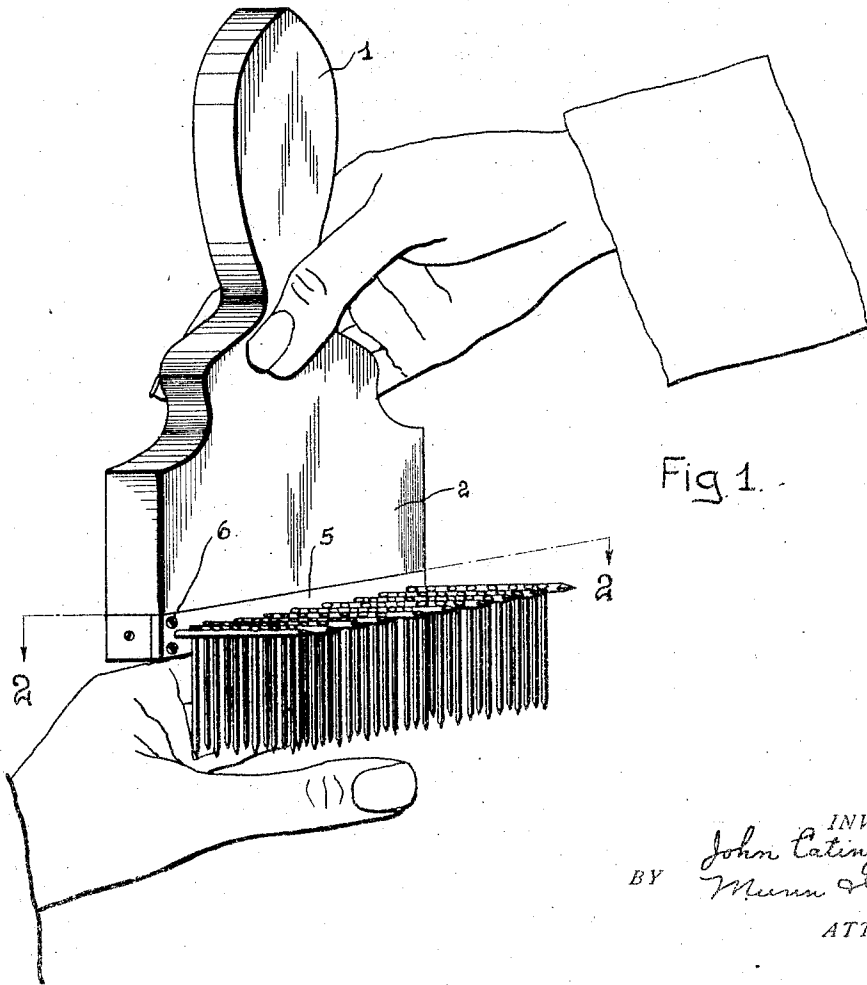


Fig. 1.



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To all whom it may concern:

Be it known that I, JOHN CATINZEARO, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Nail Bunchers and Assorters, of which the following is a full, clear, and exact description.

My invention relates to an improvement which I have termed a nail buncher and assorter, which is designed to be used primarily by box makers, and it consists in the combinations, constructions and arrangements herein described and claimed.

In the box making industry, as in other industries, the item of labor is one of the main factors in the cost of manufacture. In making boxes it is customary for the workman to reach into the box or keg containing nails, grasp a handful of nails with his left hand, and then by means of his right hand he will assort the nails, so as to bring the heads of all the nails uppermost. After this is done, he can proceed to nail the box rapidly, feeding the nails out toward the ends of the fingers one by one. The operation of assorting or adjusting the nails requires considerable time, and the purpose of the present invention is to provide a device which will cut down the time of assorting the nails to one-tenth or even more than that.

In many instances the workman, in thrusting his hand into the keg or box will run the point of the nail into his finger or underneath the finger nail.

A further object of my invention is to provide a device which obviates the necessity of picking up the nails with the hand, and thus eliminating all danger of injury or blood poisoning which may occur from running the nail into the fingers or hand.

A further object of my invention is to provide a device of the type described which is of simple construction and which may be manufactured cheaply.

Further objects and advantages will appear in the following specification and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming a part of this application, in which—

Figure 1 is a perspective view of the device, showing the manner in which it is used, and

Fig. 2 is a section substantially along the line 2—2 of Fig. 1.

In carrying out my invention I provide a handle 1 of any suitable shape, but preferably of the shape shown in the drawings. The handle is preferably made of wood, and is provided with an integral head 2. A series of nails or teeth 3 is carried by the head, the heads of the nails being preferably counter-sunk, as shown in Fig. 2, and being covered by a retaining band 4, which may be a strip of brass or other suitable material. On the opposite side is a metal plate 5, through which the nails pass, this plate being counter-sunk, and being secured by means of screws 6. The plate 5 forms a rigid retaining member for the nails or teeth 3. The nails or teeth 3 are spaced equally apart, the distance depending upon the size of the nails to be assorted or arranged.

In the use of the device, the handle is grasped with the right hand in the manner shown in Fig. 1, and then with a scooping action the teeth 3 are drawn through a mass of nails in a container. The implement is tipped so as to incline the teeth slightly upwardly, and then is shaken. The nails which have been engaged will slide down toward the plate 5, while those nails which have not been caught up between the teeth will be shaken off into the container. This operation is repeated three or four times, when the implement will be filled with nails hanging from the teeth in the manner shown in Fig. 1. These operations can be conducted very rapidly. The left hand is placed around the bunch, and the nails are slipped off from the implement with the heads of the nails uppermost. The time saved in arranging the nails over the old hand method of arrangement adds greatly to the box maker's efficiency, and enables him to turn out much more work than where he has to arrange the nails in the old way.

Furthermore all danger of injury to the hands or fingers is obviated, since the hands are not thrust into the keg, as they are ordinarily. The device may be used efficiently as an assorting device, as well as a nail buncher and arranger. In a keg where there are nails of miscellaneous sizes, this device will pick out only those nails whose heads will not go between the teeth or prongs 3. Obviously, the teeth may be spaced apart at various distances, so that one instrument

may be used for nails of only one size or for nails of several sizes.

The device is simple in construction and cheap to manufacture.

5 I claim:

1. In a nail buncher and assorter, a handle, a flat head formed integrally with said handle, and a row of teeth secured to said head on one side thereof near the end of the head, said teeth being spaced apart at equal distances and projecting laterally and at right angles to the plane of the head.

2. In a nail buncher and assorter, a handle, a flat head formed integrally with said handle, a row of teeth secured to said head 15 on one side thereof near the end of the head, said flat head being of greater width than the row of teeth, said teeth being spaced apart at equal distances and projecting laterally and at right angles to the plane of the head, and a metal strengthening plate carried by the head for holding the teeth rigidly in position. 20

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