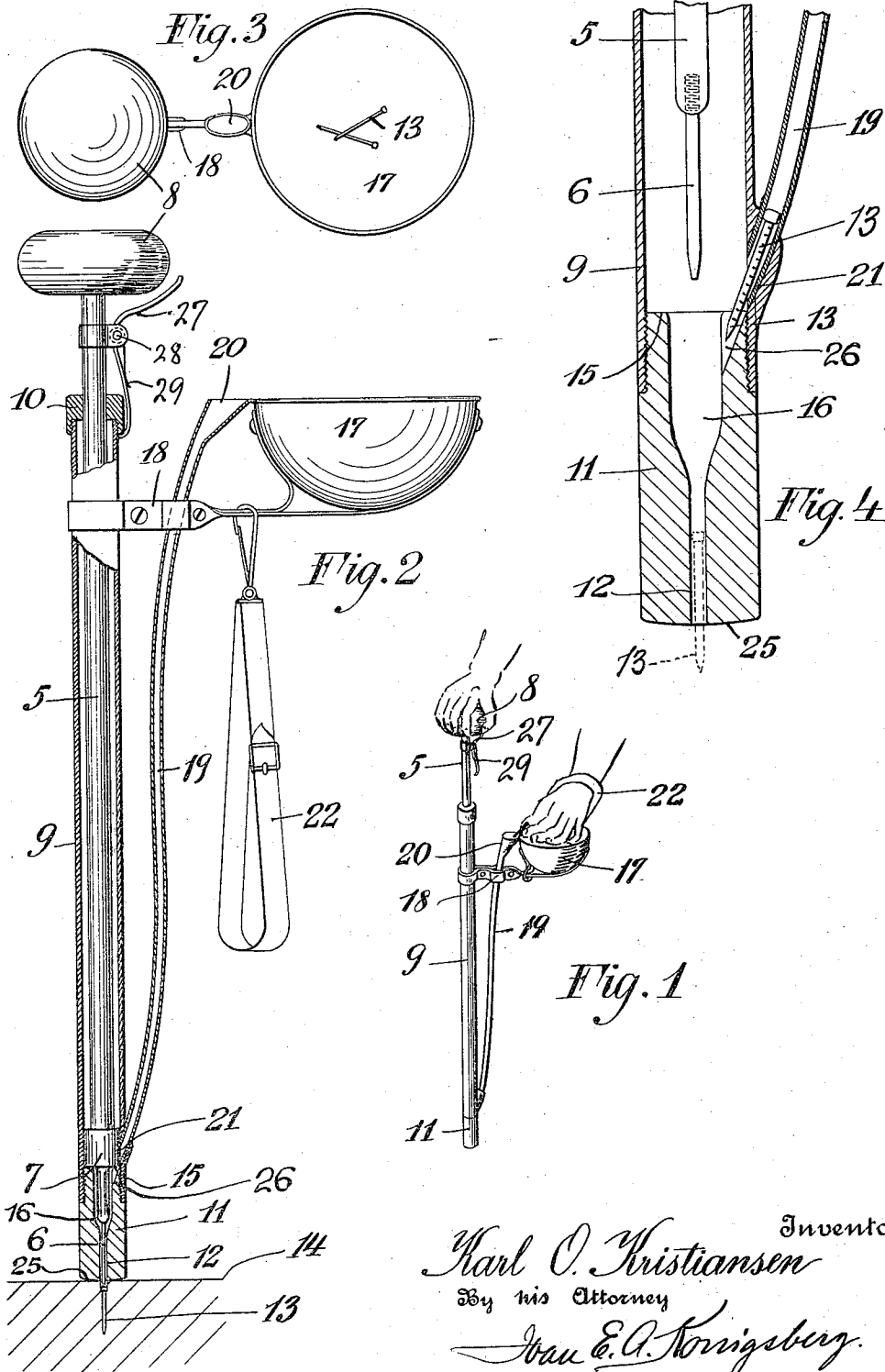


K. O. KRISTIANSEN.
TOOL FOR NAILING PARQUET FLOORS.
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1,241,996.

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UNITED STATES PATENT OFFICE.

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TOOL FOR NAILING PARQUET FLOORS.

1,241,996.

Specification of Letters Patent.

Patented Oct. 2, 1917.

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To all whom it may concern:

Be it known that I, KARL O. KRISTIANSEN, a citizen of the Norwegian monarchy, and resident of New York city, in the county of Bronx and State of New York, have invented certain new and useful Improvements in Tools for Nailing Parquet Floors, of which the following is a specification.

The object of my invention is to provide a tool for nailing parquet floors in a more efficient manner than by the use of an ordinary hammer. One object of the invention is to provide a tool comprising a suitable hammer or like element adapted to force a nail into the wood and at the same time countersink the nail. Another object is to provide means for feeding a nail into operative position beneath the hammer. Other objects are to provide means for having a supply of nails constantly on hand in a convenient manner for rapid operation and to provide suitable supporting means for the tool.

With the above and other objects in view, my invention is embodied in a tool as hereinafter described and as illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view of the tool showing the use thereof;

Fig. 2 is a view, partly in section, showing the tool in a position of having forced a nail into the wood;

Fig. 3 is a plan view; and

Fig. 4 is an enlarged detail view of the lower portion of the tool.

In the drawing the numeral 5 designates a hammer element adapted to force the nail into the wood. The hammer is provided with a head 6, a stop collar 7 and a handle 8 for operating the hammer, which may consist of an iron pipe or rod. The hammer is operated within a hammer guide and support 9 provided with an upper stop 10 and a foot 11 having a mouth or outlet 12 through which the nails 13 are forced from the tool and into the wood or floor 14.

The foot is adapted to be screwed onto the hammer guide 9 and the inner end of the foot forms a shoulder stop 15 against which the stop collar 7 of the hammer hits when a blow is delivered. The foot is further provided with a flared portion 16 having a groove 26 for guiding the nails to the said outlet 12.

17 designates a bowl for containing the nails. The bowl or nail container is secured

to the hammer guide by a suitable clamp or strap 18 or any other means. 19 is a nail guide in the form of a tube having a mouth 20 and an outlet 21 communicating with the hammer guide 9. The said clamp 18 also serves to support the nail guide as shown. 22 is an adjustable strap to enable the operator to handle the tool with convenience. 27 is a latch pivoted at 28 and adapted to catch under the stop 10 under the influence of a spring 29.

In operation a convenient number of nails are placed in the container 17 and the operator slips his left hand through the strap 22 as seen in Fig. 1 while the right hand grasps the handle 8 of the hammer. If desired, a similar strap not shown, may be provided below the handle for the right hand. The operator then places the foot of the tool on the spot where it is desired to drive a nail. It will here be noted that the lower surface of the foot 12 is curved as at 25 to insure that the outlet 12 will contact with the floor even should the operator place the tool at an angle upon the floor.

With the left hand the operator then picks up a nail and drops it into the nail guide, point lowermost. The nail will then fall by gravity through the nail guide till it reaches the outlet 21. If the hammer has not then been lifted the nail will rest in the guide 19 against the side of the hammer stop 7. The hammer is then lifted, the nail passes from the nail guide and is directed by the groove 26 into the flared cup portion 16 and the outlet 12. The hammer is then moved downward with a blow and drives the nail into the wood, the parts being so designed, that as seen in Fig. 2, the head will project outside the foot or penetrate a slight distance into the wood to countersink the nail. The blow of the hammer is arrested by the stop 7 hitting the shoulder 15.

If the hammer has been elevated by the time the nail arrives at the bottom or outlet 21 of the nail guide, the nail will of course pass directly into the outlet 12.

The mode of operation is for the operator to keep his left hand in the nail container and deposit a nail in the nail guide by moving the left hand. It will be noted that when the hammer has delivered the blow, the latch 27 automatically engages under the stop 10 to lock the hammer and hammer guide together for convenience in lifting the tool. When the operator grasps the handle

to elevate the hammer for the next blow, he also closes his thumb on the latch to unlock the same.

The head 6 is screwed into the hammer as shown in Fig. 4 so that it may be renewed. The upper stop 10 prevents the hammer from being drawn out of the hammer guide except by first removing the stop 10. The lower end of the nail guide may be soldered to the hammer guide and other or additional means may be employed besides the strap 18 to assemble the several parts into one tool.

The tool as here described and illustrated is light and easily operated and provides a means for quickly and easily nailing parquet floors or other articles and insures that the nails are driven in straight and countersunk to the same depth. Obviously, the operation is far more convenient and accurate than by the old method which requires a separate operation for countersinking the nails.

While I have described and shown my invention in its preferred form, changes may be made in the detailed construction within the scope of the appended claim.

I claim:

A nailing machine comprising a vertical tubular member having an outlet at its lower end, a container for nails supported on said member near the upper end thereof, a nail guide leading from said container to within said tubular member above the said outlet; a hammer for driving a nail through and beyond said outlet, a stop collar on the hammer for limiting the movement thereof and for closing the lower end of said nail guide, and means for operating the said hammer.

Signed at New York in the county of New York and State of New York this 8th day of December A. D. 1916.

KARL O. KRISTIANSEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."