

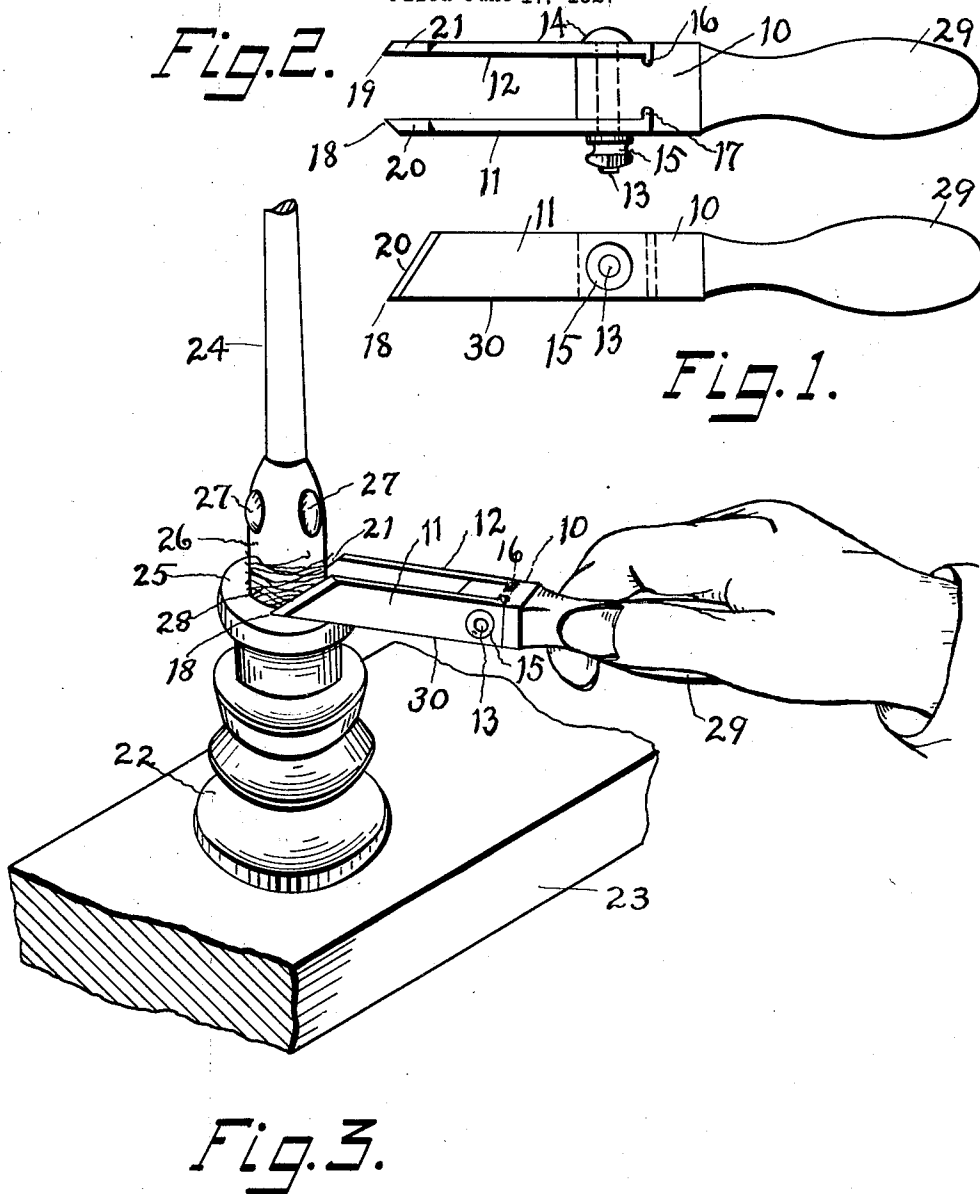
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TOOL FOR REMOVING WASTE FROM SPINDLES

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TOOL FOR REMOVING WASTE FROM SPINDLES.

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My invention relates to improvements in tools for removing waste that has accumulated on the bobbin holding means of spinning and twisting spindles; and the objects of my improvements are, first, to provide a tool that is easily operated and effective in its action; and, second, to provide a construction that is simple and inexpensive.

These objects are attained by the construction illustrated in the accompanying drawings, in which Figure 1 is a side elevation of my waste removing tool showing the bevelled cutting edges of the blades; Figure 2 is a top view of the tool showing the relative positions of the blades and the manner of fastening the blades to the head of the actuating handle; and Figure 3 is a perspective view showing the manner of operating my invention on the accumulation of waste on the barrel of the bobbin holder of a common type of spinning spindle.

My waste removing tool comprises a head 10, of rectangular cross section, to which is clamped two parallel steel blades, of equal length, 11 and 12 by the retaining bolt 13 passing through holes in the blades and the head and fixedly maintained therein by the head 14 on the end of the bolt 13 abutting against the outer surface of the blade 12 and the nut 15 threaded on the other end of said bolt and abutting against the outer surface of the blade 11. The rear ends of the blades are provided with lips 16 and 17 fitting in transverse grooves cut in opposite sides of the head 10 whereby twisting of the blades on the head is prevented. The front end of each blade inclines downwardly and forwardly to a sharp point 18 and 19 respectively and by bevelling the outer side of each inclined end cutting edges 20 and 21 are formed.

In Figure 3 is shown a spinning spindle of well known construction rotatable in a bolster 22 in a fixed relation with the bolster rail 23 of a spinning machine. The spindle comprises a blade 24 to which is fixed a bobbin rest 25 surmounted with a barrel 26 provided with a plurality of bobbin clutch-

ing members 27 the outer surfaces of which project slightly beyond the periphery of the barrel thus acting as a preventative for the easy removal of waste yarn 28 that frequently winds about the barrel between the bobbin clutching members and the top of the bobbin rest 25. By means of my improved tool this accumulation of waste is readily removed by the operator pushing the tool forward by its handle 29, preferably integral with the head, the top of the bobbin rest serving as a guide and support for the lower edges 30 of the blades, the sharp points of the tool penetrate the mass of waste and the inclined cutting edges of the blades sever the yarn from its position on the barrel. To be effective the distance between the inside surfaces of the blades should be the same as the diameter of the barrel on which the waste accumulates.

The foregoing description is directed towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all mechanical changes to which the device is susceptible, the invention being defined and limited only by the appending claims.

I claim:

1. A tool for removing waste from spindles comprising a head, two parallel blades of equal length a predetermined distance apart fixed to the head, an inclined bevelled cutting edge on the front end of each blade and a handle attached to the head for manually actuating the tool.

2. A tool for removing waste from spindles comprising a head, two oppositely disposed parallel blades, an inclined bevelled cutting edge on the front end of each blade, a transverse lip on the rear of each blade and coacting with a groove in the head, a bolt clamping the blades to the head, and a handle attached to the head for manually actuating the tool.

In testimony whereof, I have signed this specification.

GEORGE H. MAGRATH.