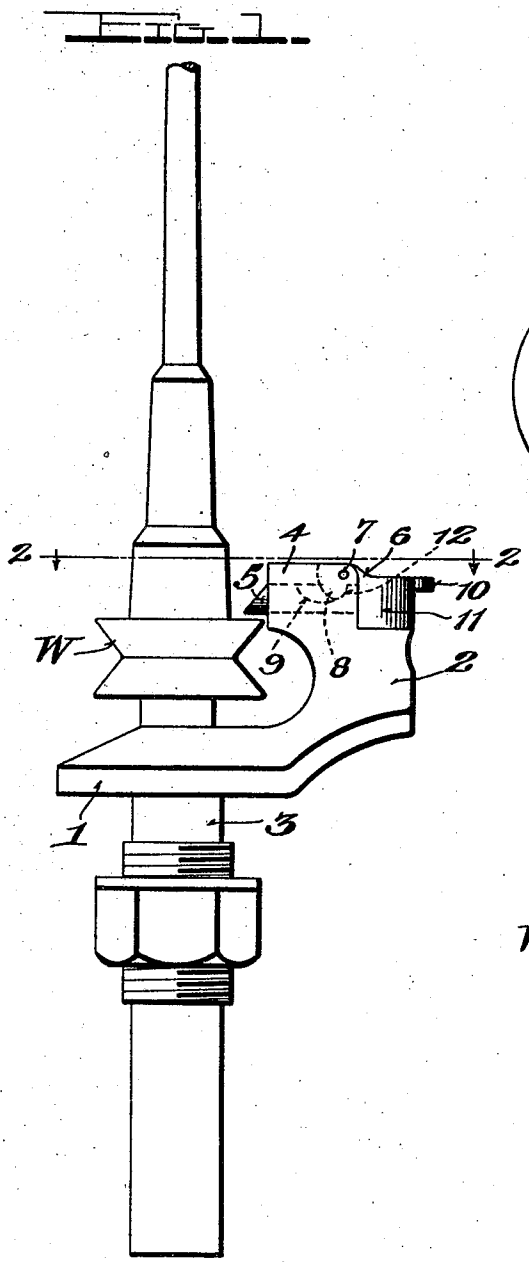
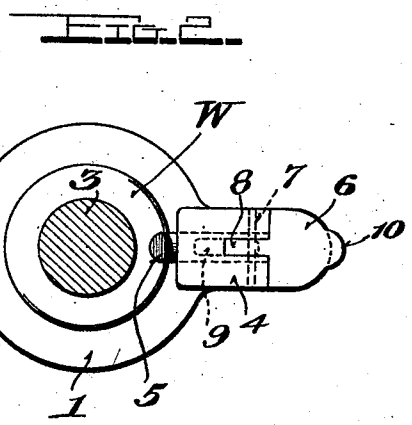
Apr. 24, 1923. 1,452,673

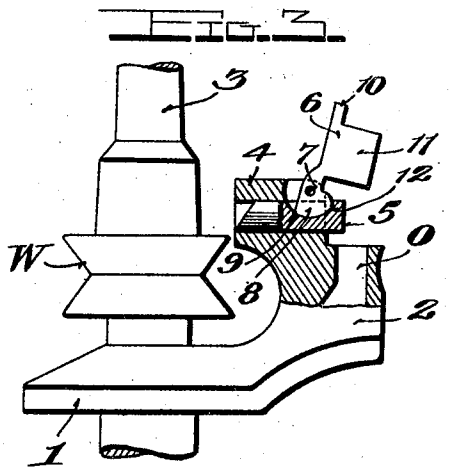
W. ADKINSON

COMBINED DOFFER GUARD AND OIL WELL COVER

Filed June 28, 1922







Inventor

William Adkinson

By Joseph A. Miller

Attorney

Patented Apr. 24, 1923. 1,452,673

UNITED STATES PATENT OFFICE.

WILLIAM ADKINSON, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO H. & B. AMERICAN MACHINE COMPANY, OF PAWTUCKET, RHODE ISLAND.

COMBINED DOFFER GUARD AND OIL-WELL COVER.

Application filed June 28, 1922. Serial No. 571,509.

To all whom it may concern:

Be it known that I, WILLIAM ADKINSON, a citizen of the United States, residing at Pawtucket, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in a Combined Doffer Guard and Oil-Well Cover, of which the following is a specification.

This invention relates to certain new and useful improvements in a combined doffer guard and oil well cover and the primary object of the invention is to provide a device which combines means to hold or latch the spindle of a spinning machine in the bolster and which further serves to protect the oil well so as to prevent dust or other extraneous matter from entering the oil well.

A further object of the invention is to provide a device of this type in which opening and closing of the oil well cover serves to effect movement of the latch out of and into spindle latching positions.

The invention further aims to provide a device of this type which is economical and simple in construction and which is positive and reliable in operation.

The invention has further and other objects which will be later detailed and manifested in the course of the following description.

In the drawings:—

Figure 1 is a side elevation of the invention.

Figure 2 is a section on line 2—2 of Figure 1, and

Figure 3 is a fragmentary side elevation, parts being broken away and shown in section.

In proceeding in accordance with the present invention, the bolster casing is formed with a base 1 and an upwardly extending arm or upright 2, the latter forming a post having an oil well or duct O for supplying lubricant to the spindle bearing in the bolster base. The post is short and stocky and breakage thereof is consequently reduced to minimum.

The spindle 3 has the usual whirl W which latter has its upper face disposed approximately in alinement with the upper end face of the post 2. The post is formed with an upwardly projecting housing 4 provided with a bearing in which a latching pin 5 has horizontal sliding movement. The pin has an upper beveled face at its effective end in order that the spindle may be readily positioned in the bolster without separate manipulation of the latching pin.

For the purpose of manually operating the pin into and out of operative position a member 6 is provided which is hinged at 7 to the housing 4 and has a cam 8 operating in a groove 9 formed in the upper end of the pin.

The member 6 is formed with a finger grip 10 and with a depending cover-forming part 11, the latter seating on the upper end face of the post and serving to cover and protect the oil well or duct. The inner end of the pin is engaged by the part 11 and moved to latching position, while the movement of the pin to unlatched position is effected by engagement of the cam 8 with the inner end wall 12 formed by the groove 9.

It will thus be apparent that the operation of the cover member 6 effects operation of the latch and since the latter is disposed over or above the whirl, the spindle is held in the bolster and against upward movement.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In combination with a bolster having a spindle therein and an upright post having an oil duct for the spindle bearing, a housing on the upper end of the post, a horizontal latching pin slidable in the housing to have its free end disposed over the spindle whirl, said pin having a groove, a member hinged to the housing and having a depending part forming a cover which engages on the upper end of the post to cover the oil duct, and a cam on the member engaging in the groove of the latching pin to move the latter to unlatched position, the depending part of said member engaging the inner end of the pin to move the latter to latching position.

2. In combination with a bolster having a spindle therein and an oil duct for the spindle, a latching pin carried by the bolster, a hinged cover for the oil duct engageable with the pin to move the latter in one direction, and a cam carried by the cover and engaging the pin to move the latter in the opposite direction.

3. In combination with a bolster having a spindle therein and an oil duct for the spin-

dle, latching means for the spindle carried by the bolster, a cover for the oil duct, means independent of the latching means for movably connecting the cover to the bolster, and means actuated by the cover for operating the latching means into and out of latching position.

4. In combination with a bolster having a spindle therein and an oil duct for the spindle, horizontally slidable latching means for the spindle, and combined duct-closing and latch operating means pivotally carried by the bolster.

5. In combination with a spindle and an oil duct therefor, latching means for the spindle a hinged cover for the oil duct, and independent means on the cover engaging the latching means one of which independent means is formed to move the latter to latched position when the cover is closed and the other to move the latching means to unlatched position when the cover is opened.

6. In combination with a spindle and an oil duct therefor, a latch for the spindle, and a cover for the duct mounted independent of the latch and having means for operating the latch.

7. In combination with a spindle and an oiling duct therefor, means to hold the spindle against upward movement, movable means to close the duct mounted independent of the holding means and having movement independent of the latter, and means operated by the duct closing means for moving the holding means to operative position when the duct closing means is in closed position and for moving the holding means to inoperative position when the duct closing means is in open position.

8. In combination with a spindle and an oiling duct therefor, means to latch the spindle against upward movement, located above the upper end of the duct, pivoted closure means for the spindle having a part extending below the latching means to move the latter to latching position and to close the upper end of the duct and means operated by the closure means to move the latching means to unlatched position.

9. In combination with a bolster having a spindle therein and an oil duct for the spindle, a slidable latch for the spindle carried by the bolster, a hinged cover for the duct having a part formed to close the duct and to engage one end of the latch to move the latter to latching position, and means to effect movement of the latch to unlatching position upon opening of the cover.

10. In combination with a spindle and an oil duct therefor, movable means to latch the spindle in position, means independent of the latching means to actuate the latter, and means to movably and independently mount the actuating means.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM ADKINSON.

Witnesses:
S. M. BARRY,
J. A. MILLER.