(No Model.)

G. R. WILSON & G. E. WATSON.

DRIVING BELT CLEANER.

No. 317,603. Patented May 12, 1885.

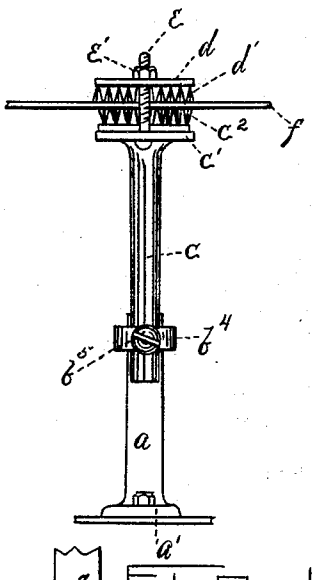


FIG. 1.

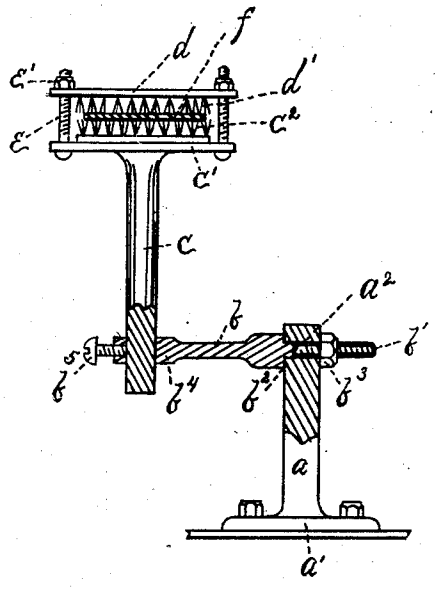


FIG. 2.

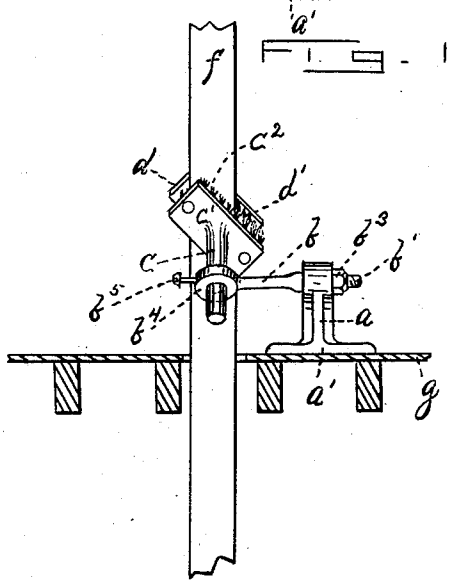


FIG. 4.

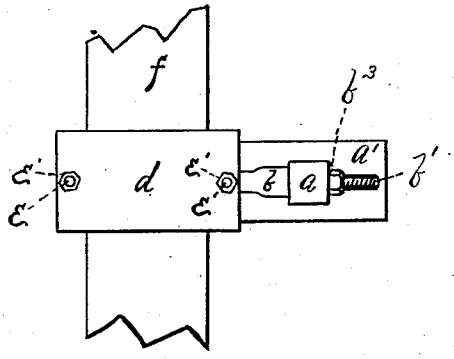


FIG. 3.

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UNITED STATES PATENT OFFICE.

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DRIVING-BELT CLEANER.

SPECIFICATION forming part of Letters Patent No. 317,603, dated May 12, 1885.

Application filed April 1, 1885. (No model.)

To all whom it may concern:

Be it known that we, G. REED WILSON and GEORGE E. WATSON, citizens of the United States, residing at Buffalo and Lockport, in the counties of Erie and Niagara and State of New York, have invented certain new and useful Improvements in Driving-Belt Cleaners; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention consists, substantially, of a brush secured to the wall, ceiling, or floor of a building, and adapted to be applied to both sides of a driving-belt, which passes through a floor or wall, and remove from both sides of such driving-belt, while in motion, any dust or foreign matter which may have collected thereon, thereby preventing such dust from being carried from one floor to another or from one room to another.

Our invention is especially designed for use in a flour-mill, where the amount of fine dust is very great.

We will now proceed to describe definitely the manner in which we have at the present time applied our invention, it being understood that it is susceptible of considerable variation or modification without departing from the spirit of said invention.

In the drawings, Figure 1 is a side elevation, Fig. 2 is a front elevation, and Fig. 3 is a top plan view, of our improved device, and Fig. 4 illustrates the manner of its application to a driving-belt.

Referring to the drawings, *a* is a frame or standard having the flanged base *a'*, by means of which it can be secured to the floor, ceiling, or wall of a building, as occasion requires. The upper end of this standard *a* is perforated transversely, as at a^2. (See Fig. 2.)

b is an arm having at one end a screw-threaded shank, *b'*, and shoulder b^2. The shank *b'* is adapted to be inserted within the aperture a^2 of the standard *a*, in which it can be turned in any position desired and there rigidly secured by the screw-nut b^3. The other end of this arm *b* is provided with the circular collar b^4, adapted for the reception of the cylindrical shank *c* of the brush-frame, which can be turned in any position in the collar b^4, and there secured against displacement by means of the set-screw b^5. The upper end of shank *c* is provided with the plate *c'*, upon the upper surface of which is secured the brush c^2.

d is a plate similar to *c'*, upon the under surface of which is secured the brush *d'*. This plate *d*, with its brush, is made adjustable by the screw-bolts *e* and nuts *e'*, by means of which the plate *d* and its brush *d'* can be adjusted toward the brush c^2, in order that both brushes may have a close contact with the sides of the belt *f*, which passes between them. It will be seen that the brushes carried upon the shank *c* have, substantially, a universal movement, and can be adjusted in any required position.

In Fig. 4 we have shown our improved device in operation, the brushes c^2 and *d'* being placed over the driving-belt *f* at a point near the floor *g*, through which the belt *f* passes. In such figure the belt *f* is supposed to be passing upward, and the brushes have the effect of removing from such belt any and all accumulations of dust which may have been brought up from the floor beneath.

It will be observed that the brushes in Fig. 4 have a diagonal position with reference to the belt, which causes the dust to be thrown to one side in a downward direction.

Our improved device is applicable to belts running either from floor to floor or from room to room, and by its means the circulation through a building of dust by the driving-belt is thoroughly and effectively prevented.

It is apparent that other means than the brushes shown might be substituted therefor with the same general results—such as the woolly side of sheepskin, rubber, felt, or other analogous material.

We claim—

1. A driving-belt cleaner consisting of a pair of brushes, or their equivalents, mounted in a frame, the driving-belt passing between and in contact with the brushes, as and for the purpose stated.

2. A driving-belt cleaner consisting of a pair of brushes, or their equivalents, mounted in a frame having universal movement, the driving-belt passing between and in contact with the brushes, as and for the purpose stated.

3. The driving-belt cleaner, consisting of the adjustable plate d, with its brush d', the adjustable shank c, carrying the plate c', with its brush c^2, the arm b, having the sleeve b^4 and set-screw b^5 at one end, and the screw-threaded shank b' and nut b^3 at the other end, and the standard a, with aperture a^2, all combined and operating substantially as shown, and for the purpose stated.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

G. REED WILSON.
GEORGE E. WATSON.

Witnesses:
OTTO HODDICK,
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