Aug. 1, 1933. C. LANCASTER 1,920,870

SLASHER HOOD

Filed July 22, 1931 2 Sheets-Sheet 1

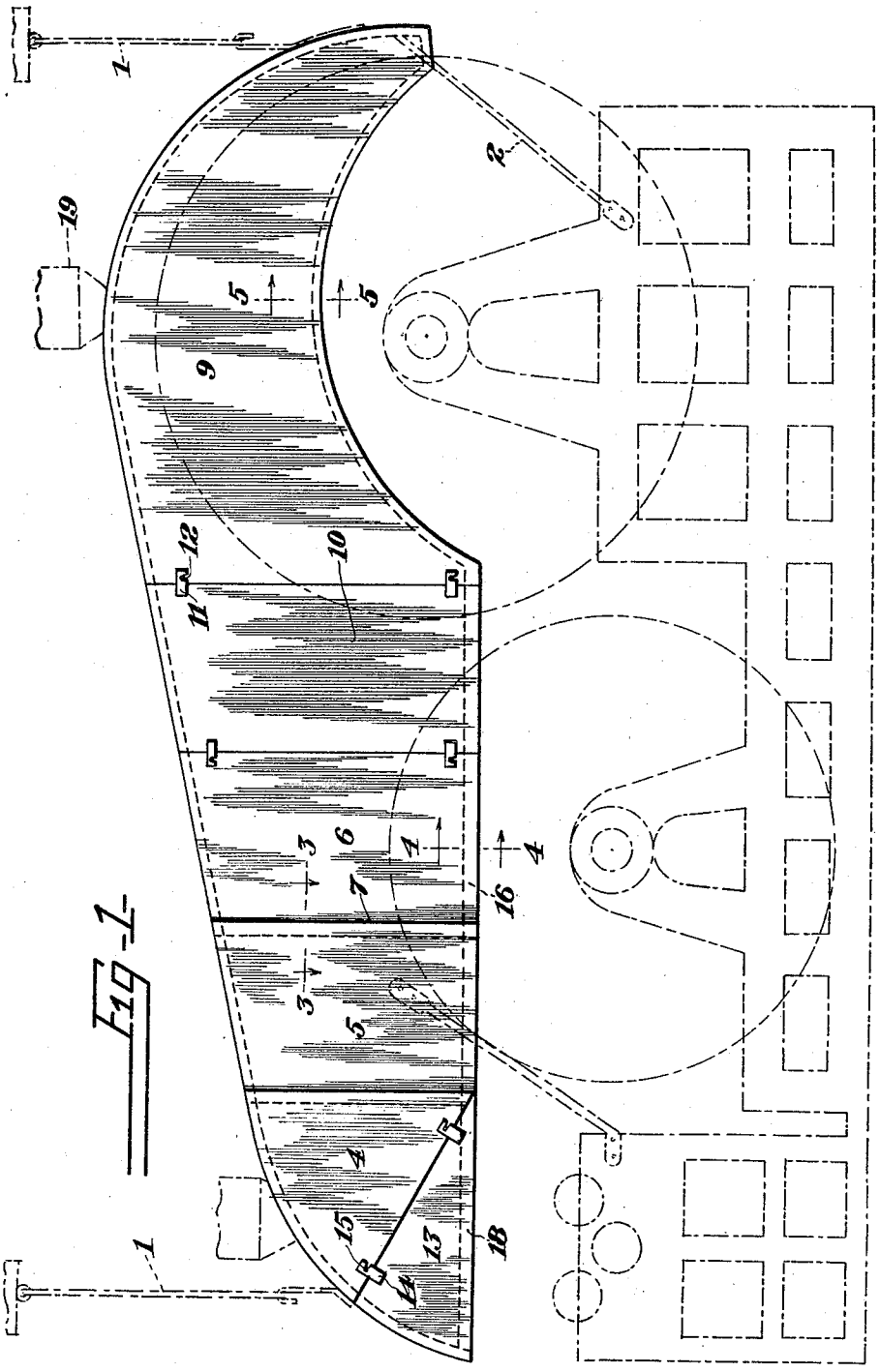


Fig. 1

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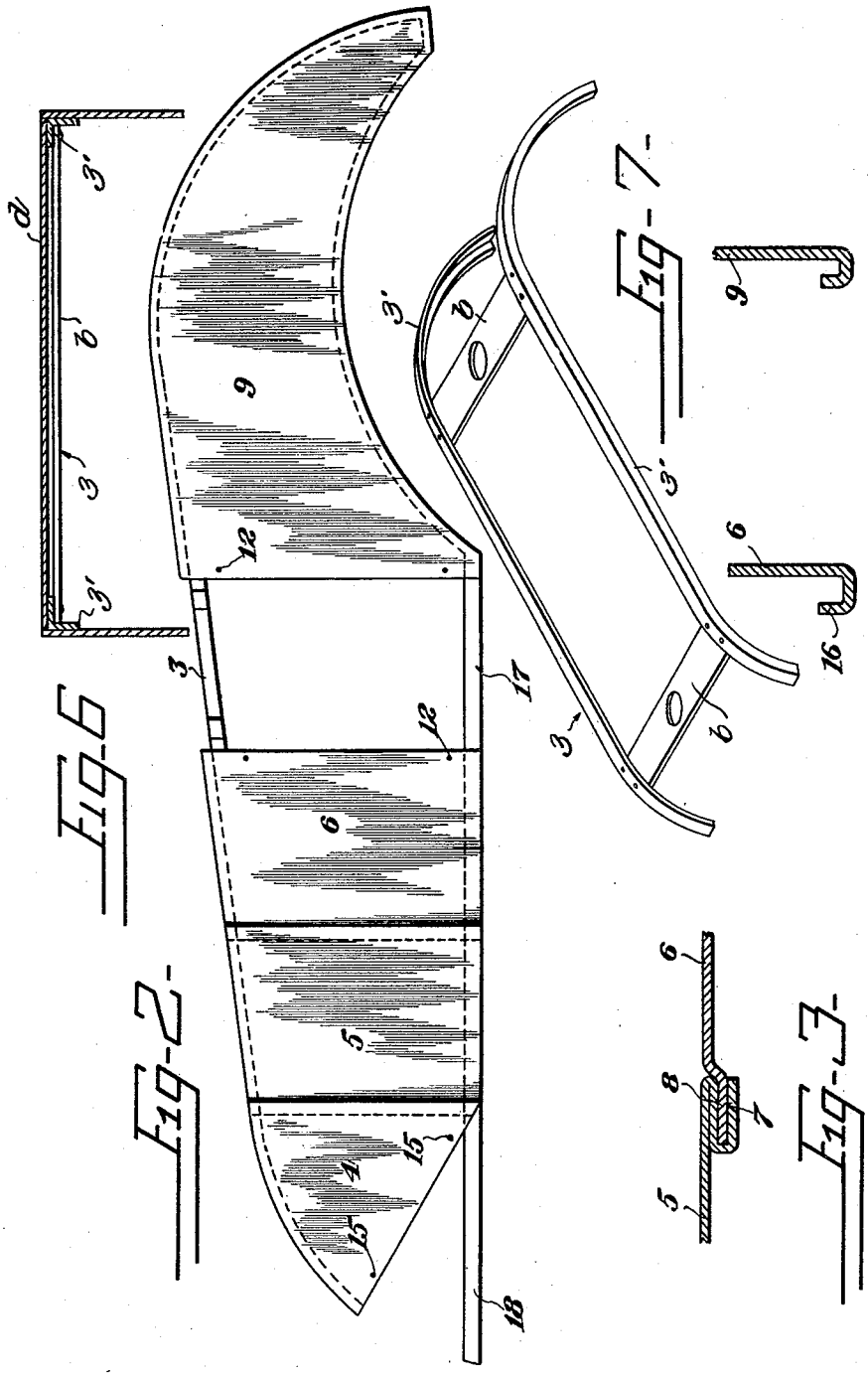


Fig. 6

Fig. 2

Fig. 7

Fig. 5

Fig. 4

Fig. 3

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SLASHER HOOD

Claude Lancaster, Spartanburg, S. C.

Application July 22, 1931. Serial No. 552,532

2 Claims. (Cl. 28—28)

An object of this invention is the provision of a hood arranged in such manner with respect to the cylinders and size box of a slashing machine that the rising vapors will be collected and carried away so that they will not condense and drip back upon the starched and dried yarn and thereby obviate the liability of spoiling the yarn incident to the contact therewith of such condensation.

A further and important object is the provision of a hood for this purpose that is made up of sections in the nature of panels whereby the sections comprising the hood may be arranged against each other and positioned in a small crate for shipping or whereby the sections may be hauled on a light delivery truck and further wherein the sections are of such construction that the same can be easily handled and quickly assembled.

A further object is the provision of a hood for this purpose constructed of sections made up of sheet aluminum, light aluminum castings, copper or sheet iron and wherein certain of the sections when assembled afford a removable panel for inspecting the yarn, the construction is also such as to provide removable end sections so that access can be readily had to the kettle to permit the removal of the rolls of the size vat and the renewing of the covering therefor.

To the attainment of the foregoing the invention consists in the improvement hereinafter described and definitely claimed.

In the drawings:

Figure 1 is a side elevation of the improvement in applied position.

Figure 2 is a side elevation of the improvement with the panel and with the rear end removed.

Figure 3 is a sectional view approximately on the line 3—3 of Figure 1.

Figure 4 is a sectional view approximately on the line 4—4 of Figure 1.

Figure 5 is a sectional view approximately on the line 5—5 of Figure 1.

Figure 6 is a transverse sectional view through the device.

Figure 7 is a perspective view of the frame for the top of the device.

My improved hood is arranged to extend entirely over the two cylinders as well as the size-box of the apparatus. The size of the hoods necessarily vary in accordance with the size of the apparatus. The hood may be suspended at each end by suitable cables 1, or the said hood may be removably attached to the frame of the apparatus by rods 2, indicated by the dotted lines in Figure 1 of the drawings. The top wall and the side walls curve up over the main cylinder, so as to completely hood the upper side thereof, while the end of the hood arranged over the size-box is rounded.

As stated, the hood is made up of sections so that the same can be readily manufactured, removed from the factory and set up at the mill. The hood essentially comprises side panels, top panels and a frame to which the side and top panels are connected. The frame is broadly indicated by the numeral 3 and is best illustrated by Figure 7 of the drawings. The frame has side channel irons 3′, connected by end plates *b*. The elements constituting the top frame may be easily and quickly connected by rivets or the like and as the top frame is formed of very light metal the same can be easily handled. The top plates, indicated by the character *d*, are arranged over the top frame and riveted thereto and the side panels have their upper edges contacting with the ends of the top panels *d* and all of the said side panels, except those hereinafter referred to in detail are riveted or otherwise rigidly secured to the side members 3′ of the frame 3. The panels 4, 5 and 6 have their confronting ends bent to provide respectively grooves 7 and tongues 8 that enter the said grooves. After erection the tongues and grooves may be secured in any desired or preferred manner. The panels over the main cylinder are indicated for distinction by the numerals 9, and the panel between the sections 9 and the sections made up of the panels 6 have arranged therebetween removable side panels 10. The side panels 10 are connected to the side panels 9 and 6 by suitable latches which preferably comprise notched plates 11 that are fixed on the panel or panels 10 and studs 12 on the panels 9 and which are received in the notches of the plates. By this arrangement it will be noted that the side panel or panels 10 may be readily removed from the remainder of the hood so that the yarn can be inspected.

The hood sections comprising the end panels 13 which are arranged over the size box are also removably connected to the panels 4, the connecting means being in the nature of notched plates 14 carried by the panels or sections 13 that receive in the notches thereof pins 15 carried by the panels or sections 4 and by this arrangement it will be noted that the end provided by the panels 13 of the hood may be readily separated from the remainder of the hood so that the rollers from the size vat may be inspected, removed, re-

placed or recovered in an easy and convenient manner.

The lower edges of the hood and the panels that comprise the same are bent inwardly and upwardly to form the same with a continuous gutter 16. However, preferably the panels 10 are not provided with this gutter, but a gutter section 17 communicating with the gutter sections in the panels 9 and 10 is provided, as disclosed by Figure 2 of the drawings. Also the end panels or sections 13 are not provided with a gutter but gutter sections 18 extend from the gutter sections in the panels 5. The continuous gutter at the lower end of the hood is an important feature of the improvement as condensation along the side walls of the hood will drip into this gutter and will be prevented from dropping onto the starched and dried yarn and spoil such yarn.

The top of the hood, adjacent to the front and rear thereof, is provided with vapor exhaust openings. With my hood these openings are of a larger area than those of the ususal construction and the openings are surrounded by the usual pipes 19 which are connected in any suitable manner with a system of exhaust pipes which draw the condensation from the hood. The pipes 19 have connected thereto the usual suction fans that prevent the accumulation of moisture at the top of the hood, and which likewise tend to dry the yarn. With such fans there is little liability of condensation upon the inner face of the top of the hood but a certain amount of condensation will, it has been found, accumulate on the side walls of the hood and for this reason the gutter is provided.

The nature and scope of the invention having been thus indicated and its preferred embodiment having been specifically described, what is claimed as new is:

1. A hood adapted to be supported over the cylinders and size box of a slasher, made up of panels, certain of which have their edges formed with interengaging tongues and grooves, one of the side panels being removable, latching means for holding the said removable panel on the adjacent panels, the end section of the hood arranged over the size box being removable, latching means for holding such section on the adjacent section, a top including a frame which is secured to all but the removable side panels, and pipes for suction fans arranged on the top and communicating with the hood adjacent to the ends thereof.

2. A hood adapted to be supported over the cylinders and size box of a slasher, made up of panels, certain of which have their edges formed with interengaging tongues and grooves, one of the side panels being removable, latching means for holding the said removable panel on the adjacent panels, the end section of the hood arranged over the size box being removable, and latching means for holding such section on the adjacent section and the hood, except the removable panel and the removable section having its lower edge rolled inwardly to provide a gutter and gutter sections connected with the main gutter at the removable panel and at the removable end section, an open frame secured to the upper edges of all but the removable panels, top panels fixed on the frame for covering the hood, and said hood, adjacent to its ends, having its top provided with openings for pipes designed to have suction means therein for removing condensation from the top of the hood and for assisting in the drying of the yarn.

CLAUDE LANCASTER.