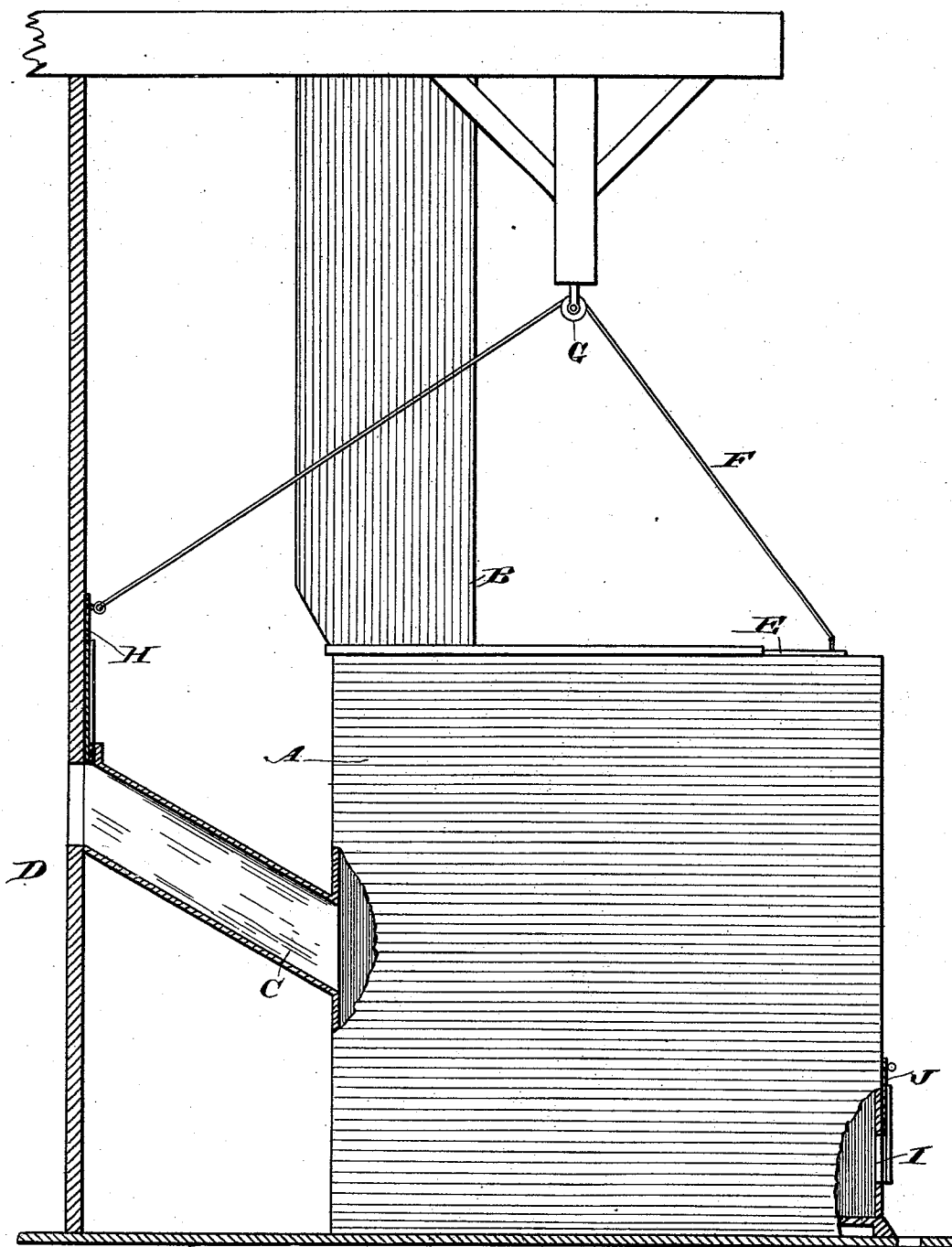


(No Model.)

E. NORTHCRAFT.
FIRE EXTINGUISHER FOR COTTON GINS.

No. 498,683.

Patented May 30, 1893.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD NORTHCRAFT, OF SAN MARCOS, TEXAS.

FIRE-EXTINGUISHER FOR COTTON-GINS.

SPECIFICATION forming part of Letters Patent No. 498,683, dated May 30, 1893.

Application filed July 30, 1892. Serial No. 441,692. (No model.)

To all whom it may concern:

Be it known that I, EDWARD NORTHCRAFT, of San Marcos, in the county of Hays and State of Texas, have invented a new and Improved Fire-Extinguisher for Cotton-Gins, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved fire extinguisher, which is simple and durable in construction, very effective in operation, and more especially designed for quickly and conveniently extinguishing a fire in a cotton gin.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawing forming a part of this specification, in which the improvement is shown in side elevation with parts in section.

The cotton gin A, of any approved construction, is provided with the usual inlet B, through which the cotton is introduced into the gin in the usual manner. From the cotton gin A also leads the lint outlet chute C, discharging into the lint room D, preferably forming a room separate from that in which the gin A is located. The inlet opening B is adapted to be closed by means of a slide valve E, arranged on top of the gin A and connected, at its outer end, with a rope or chain F, passing over a pulley G, held above the gin A in suitable bearings attached to a bracket extending from the ceiling of the building in which the gin A is located. The rope or chain F extends from the pulley G downward and rearward to connect with a second slide valve H, adapted to close the chute C so as to disconnect the lint room from the latter to prevent the fire from spreading from the gin A through the chute C to the lint room.

On the front of the gin A is formed the usual seed outlet opening I, adapted to be closed by a slide valve J, arranged vertically in suitable bearings on the front of the gin A,

said valve being normally held in position by means of springs, not shown.

The device is used as follows:—As long as the gin is operating under normal conditions then the valves E, H, and J are open so that the cotton can pass through the inlet opening B to the gin A in which the seed is separated from the lint, and the latter passes through the chute C into the lint room, while the seed passes through the opening I and through an opening in the floor to the room next below the gin. Now, when a fire breaks out within the gin A, the operator pushes the valve E inward so as to close the inlet opening B. At the same time the inward movement of the valve E causes a slack in the rope or chain F, so that the valve H drops down by its own weight and closes the chute C to disconnect the latter from the lint room. The operator then pushes the valve J downward, so that the inlet opening B, the chute C, and the seed outlet I are all closed. All connections to the gin A are now closed so that the fire within the gin will soon die out, owing to lack of air necessary for combustion.

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

1. The combination with a gin having an inlet at its top, and a lint chute leading from one side, of a valve for closing the inlet, a valve for closing the chute, and a flexible connection between the valves, substantially as and for the purpose set forth.

2. The combination with a gin having an inlet in its top, and a lint chute leading from one side, of a valve sliding on the top of the gin for closing the inlet, a sliding valve for closing the lint chute, and a rope passed over a guide and having its ends connected to the said valves, substantially as described.

EDWARD NORTHCRAFT.

Witnesses:

GEO. T. MCGEHEE,
G. W. DONALSON.