

E. S. MUNGER
Cotton-Gin Saw-Cleaners.

No. 202,744.

Patented April 23, 1878.

Fig. 1

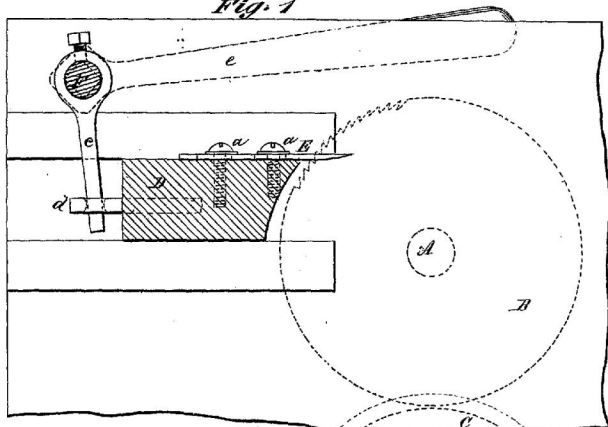
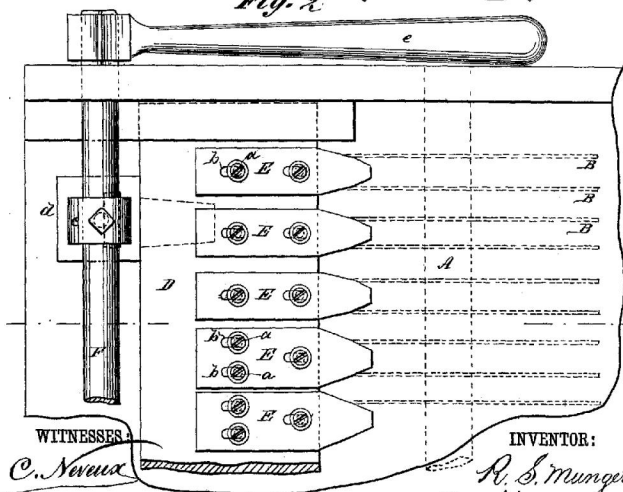


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT S. MUNGER, OF MEXIA, TEXAS.

IMPROVEMENT IN COTTON-GIN-SAW CLEANERS.

Specification forming part of Letters Patent No. **202,744**, dated April 23, 1878; application filed March 13, 1878.

To all whom it may concern:

Be it known that I, ROBERT S. MUNGER, of Mexia, in the county of Limestone and State of Texas, have invented a new and Improved Cotton-Gin-Saw Cleaner, of which the following is a specification:

Figure 1 is a side elevation in section of my improved gin-saw cleaner. Fig. 2 is a detail plan view of the saw-cleaning knives.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a device for quickly cleaning the saws of cotton-gins when they become gummed.

It consists in a series of knives that are supported by a movable bar or frame, and may be thrust between the saws when the saws are to be cleaned.

Referring to the drawing, A is the shaft, upon which are placed gin-saws B. Below the gin-saws there are rotary cleaning-brushes C, of the usual description.

Behind the saws B, and above the level of the saw-shaft, is a knife-support, D, which consists of a bar or frame that is placed in guides in the gin-saw frame, and is arranged parallel with the saw-shaft A.

To the upper surface of the knife-support D a series of tapering knives, E, are secured by screws *a*, which pass through slots *b* in the knives into the support.

The knives are placed apart a suitable distance to receive between each pair two gin-saws. A rock-shaft, F, is journaled in the gin-saw frame parallel to the support D and saw-shaft A. To this rock-shaft are attached arms *c*, which extend downward through apertured ears *d*, that project from the rear edge of the knife-support D, and the said shaft is provided with a lever, *e*, at one of its ends, by which it may be turned to move the support D either forward or backward, as may be required.

The knives E are sharpened from the under side, and are tapered so that they will readily enter between the saws.

The operation of cleaning the gin-saws is as follows: When the saws become gummed from ginning damp cotton, the gin is stopped and the knives E are thrown forward into contact with one side of the saws by means of the rock-shaft F. The saws are then turned backward through one revolution. The gummy cotton, by contact with knives, is cut from one side of the saws, and either drops of its own weight or is removed by the cleaning-brushes C.

Although a single set of knives acting on one side of the saws is sufficient to accomplish the cleaning of the saws, two sets may be employed, one set being placed above and alternating with the other.

The knives may be readily removed from their support and sharpened.

The advantages claimed for my improvement are, that the saw may be cleaned in a minute by one man at a single operation, whereas by the old method it requires several men and one and a half or two hours.

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

1. The tapering knives E, adjustably attached to the movable support D and placed in guides in the gin-frame, substantially as and for the purpose specified.

2. The combination of the rock-shaft F, having arms *c* and the operating-lever *e*, with the knife-support D, substantially as shown and described.

R. S. MUNGER.

Witnesses:
T. A. HORD,
S. S. WALKER.