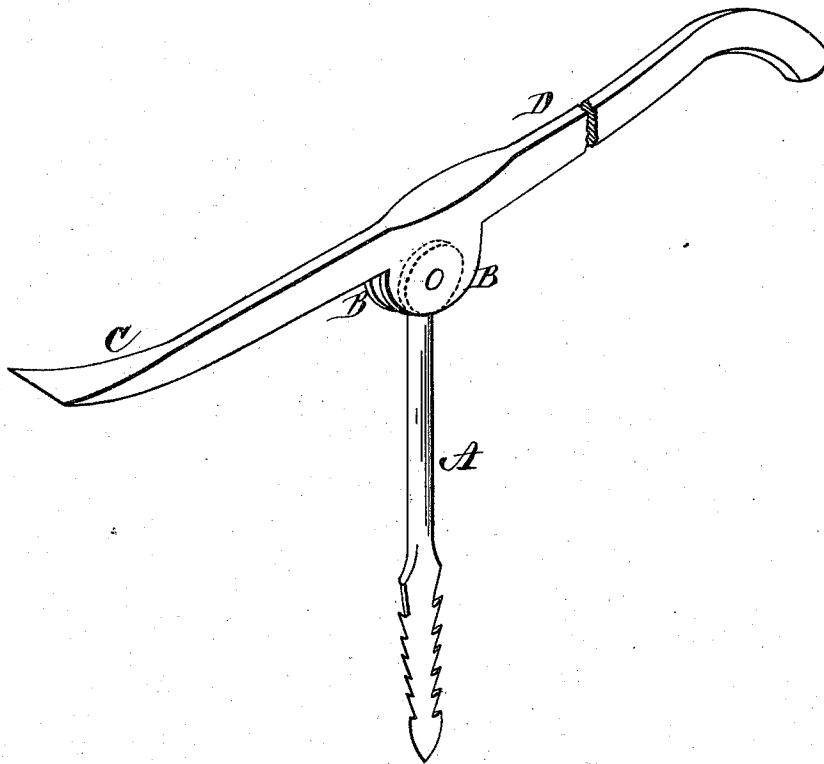


E. A. CLARK,
Borer for Sampling Cotton.

No. 141,998.

Patented August 19, 1873.



WITNESSES

P. L. Durand
A. L. Ewert

By

INVENTOR

Edwin A. Clark
Hander Mason
Attorneys.

UNITED STATES PATENT OFFICE.

EDWIN A. CLARK, OF JACKSON, TENNESSEE.

IMPROVEMENT IN BORERS FOR SAMPLING COTTON.

Specification forming part of Letters Patent No. **141,998**, dated August 19, 1873; application filed July 22, 1873.

To all whom it may concern:

Be it known that I, EDWIN A. CLARK, of Jackson, in the county of Madison and in the State of Tennessee, have invented certain new and useful Improvements in Borer for Sampling Cotton; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in so constructing the auger and handle used for sampling bales of cotton that a leverage power can be obtained for the purpose of either forcing the bit into the bale to be sampled, and also to withdraw it therefrom after one or two twists have been given to cause it to become wrapped with cotton.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of my sampling-auger.

As heretofore constructed, such a sampling-auger has been provided with a handle, fixed rigidly through an eye at one end thereof, as in the case of an ordinary carpenter's tool, and the bit could only be inserted into the bale, and afterward withdrawn therefrom by a direct push and pull, the entire strength required to do so having to be applied directly to the bit.

In my invention I fit the sampling-auger A into suitable jaws B in the handle C D, where it is secured by means of a rivet or pin, and is movable in a direction parallel with the handle. In the construction of the handle I make a shorter length from the point where the auger is hinged to the end C, which acts as the fulcrum, than from this point to the end D, which acts as the lever. The terminal of the short or fulcrum end C is slightly curved, and designed to be inserted under any convenient tie which surrounds the bale to establish the necessary fulcrum for the leverage motion.

The operation of sampling is as follows: The short or curved end C of the handle is introduced under a tie of the bale, the auger A inserted, at a convenient angle, into the bale, and by depressing the long end D of the handle the auger is forced downward into the cotton. The fulcrum end of the handle is then released and one or two complete turns given to the auger to cause it to wrap itself with the fiber. It will thereby tear loose, and the leverage power being again applied to withdraw the auger, the bale acting as the fulcrum against which the short end of the handle presses while force is being applied at the long end to withdraw the auger.

The length given the handle also secures the advantage of inserting the auger into the bale at any point on its surface without requiring the operator to be in immediate proximity to the place of its entrance, as in the case of augers otherwise constructed; and the leverage power obtained enables the operation of sampling to be done in greatly less time, owing to the more rapid manner in which the auger is introduced and withdrawn.

The difference in the length of the handle on either side of the point where the auger is attached thereto may be in any desired proportion; and the auger may be folded down against the handle for convenience in rendering it more portable when not in use.

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

The combination of the handle C D with ears B B and the auger A pivoted between said ears, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of May, 1873.

E. A. CLARK.

Witnesses:

J. SMITH, Jr.,
L. T. LINDSEY.