

C., G. W., & J. D. ELLIS.

Box-Scrapers.

No. 141,549.

Patented August 5, 1873.

Fig.1

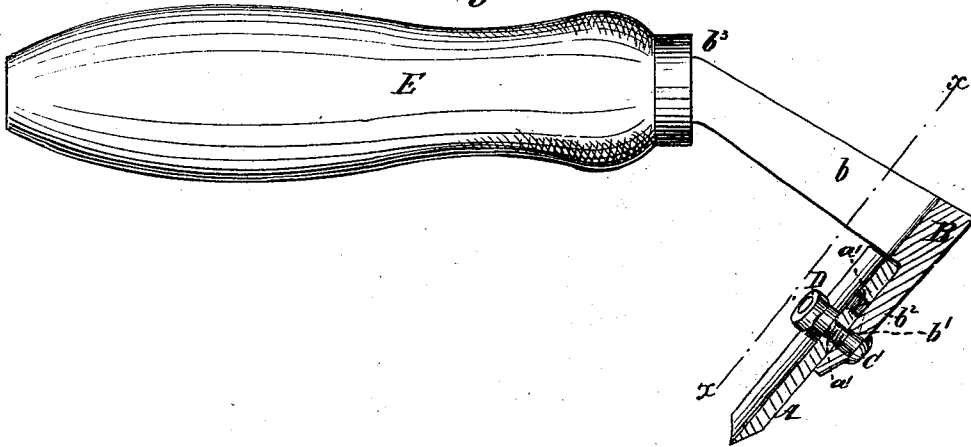
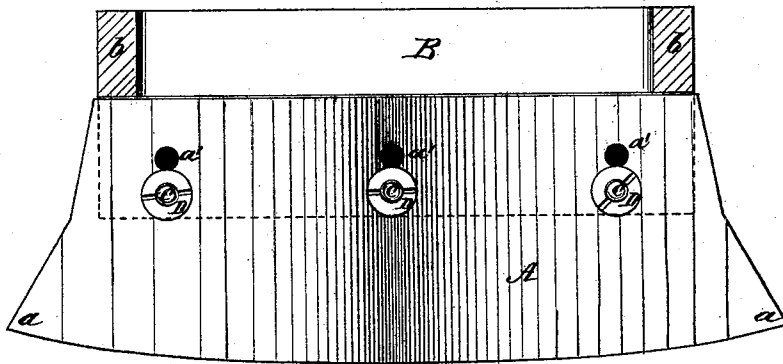


Fig.2.



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UNITED STATES PATENT OFFICE.

CHARLES ELLIS, GEORGE W. ELLIS, AND JOHN D. ELLIS, OF PHILADELPHIA,
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IMPROVEMENT IN BOX-SCRAPERS.

Specification forming part of Letters Patent No. **141,549**, dated August 5, 1873; application filed
June 20, 1873.

To all whom it may concern:

Be it known that we, CHARLES ELLIS, GEORGE W. ELLIS, and JOHN D. ELLIS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented an Improvement in Box-Scrapers; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 is a cross-section in line *xx* of Fig. 1.

The invention relates to scrapers by which names, figures, brands, markings, or defacements are erased from boxes, barrels, and other packages. This invention consists in a certain construction of stock and scraper and means of attaching the same to each other and to the handles, whereby a convenient and handy tool is produced, which will be hereinafter explained.

In the drawing, A represents the blade, which is attached to a stock, B, and is of very peculiar construction, to enable it to work close to the edges of a barrel or other package. For this purpose each end *a* is laterally extended beyond the sides *b b* of the stock.

Our mode of fastening the blade A to the stock B is likewise believed to be novel and calculated to remedy certain deficiencies in the present scrapers. The latter are made with slots and set-screws, and the blade is held by clamp-screws to the stock. In practice, the nuts of these old scrapers work loose, because the clamp-bolts have no thread that attaches them rigidly to the blade or stock. This allows the bolt to move in the slot and operate badly in the hands of the manipulator. We remedy this by dispensing entirely with slots and making internally-threaded holes *a'* in the blade and simple perforations *b'* in the stock B. The screw-holes in blade and the smooth holes of the stock being made to register, the

end-threaded bolts C are passed through the stock, screwed into and through the blade A, and further secured by binding-nuts D.

After being annoyed with the practically irremediable objections to the old scraper, our invention has been subjected to a careful trial and found to remain tight under all ordinary circumstances and to continue in fine working order.

The stock B is provided with the two shanks *b b*, which, at some distance out from the part *b²*, is bent downwardly at an obtuse angle.

In scraping with the old straight-shanked scrapers it is necessary to hold the arms up in an awkward and tiresome attitude. I entirely overcome this difficulty by the bend *b³*, which gives an easy "purchase," from which the operator works without irksomeness and does more satisfactory work.

E E are the usual wooden handles employed upon tools.

These features of improvement effect a radical change in the facility with which the tool may be made to perform its expected work, while it leaves no excuse for a slovenly or partial effacement of the letters, figures, or brand.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

An improved box-scraper, consisting of the stock B having shanks *b b* projecting therefrom at, or nearly at, a right angle thereto, with a scraper-blade, A, having laterally-extended ends *a a* secured to the inner side of a projection, *b²*, of the stock by screws C fitting screw-threaded holes in the scraper-blade, as and for the purpose specified.

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Witnesses:

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