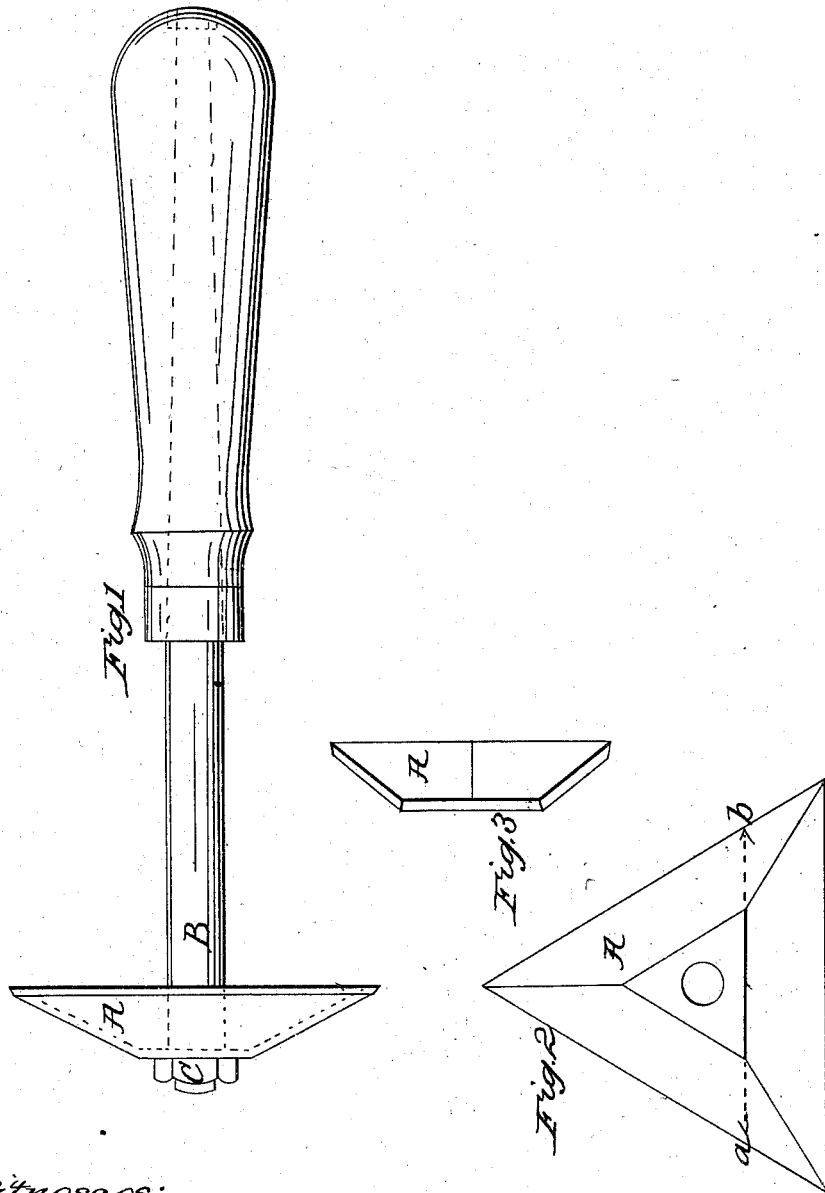


C. W. Harris,

Box and Ship Scraper,

No. 48,554.

Patented July 4, 1865.



Witnesses:

Geo. Dull
Wm. H. Billings

Inventor:

Chas. W. Harris

UNITED STATES PATENT OFFICE.

CHARLES W. HARRIS, OF PHILADELPHIA, PENNSYLVANIA.

BOX, SHIP, OR MAST SCRAPER.

Specification forming part of Letters Patent No. 48,554, dated July 4, 1865.

To all whom it may concern:

Be it known that I, CHARLES W. HARRIS, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Box, Ship, or Mast Scrapers, of the nature and description hereinafter set forth, reference being had to the annexed drawings and the letters of reference marked thereon.

The nature of my invention consists in providing the scraper, Figure 1, with the concave head-piece or cutter A, Fig. 1, so arranged as to present a more oblique angle to the surface to be cut or scraped, rendering the process of scraping more easy and uniform, and the blade being less liable to chatter.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my scraper in the usual manner, provided with the cutter A, Fig. 1, which I make concave upon the inner surface, as shown in Fig. 3. The said cutter may be either triangular, as shown in Fig. 2, or of any other form. The cutter A is attached to the shank or handle B by means of the nut C in the usual manner.

I claim—

Constructing a box-scraper of the form substantially as described.

CHAS. W. HARRIS.

Witnesses:

GEO. BULL,
WM. H. BELLOWS.