

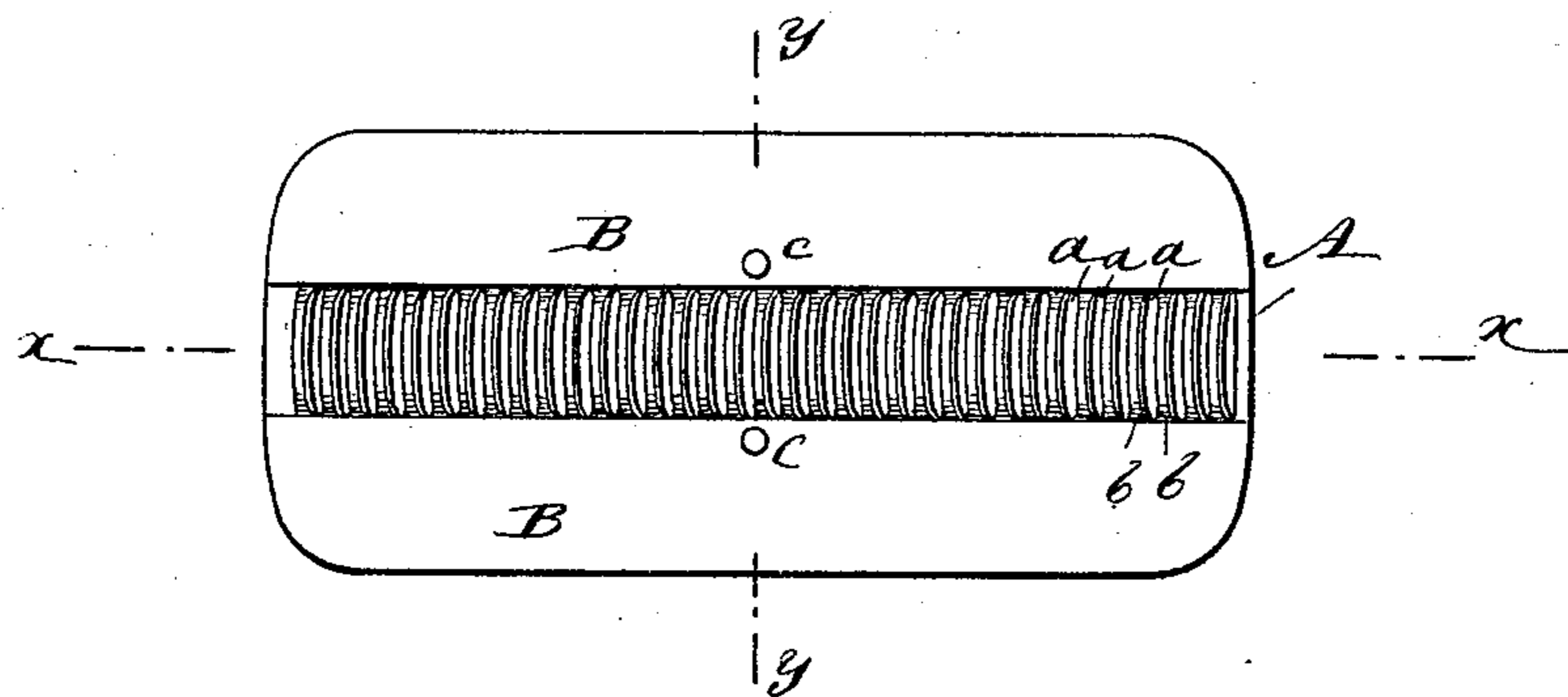
(No Model.)

W. P. MARSTON.  
PENCIL SHARPENER.

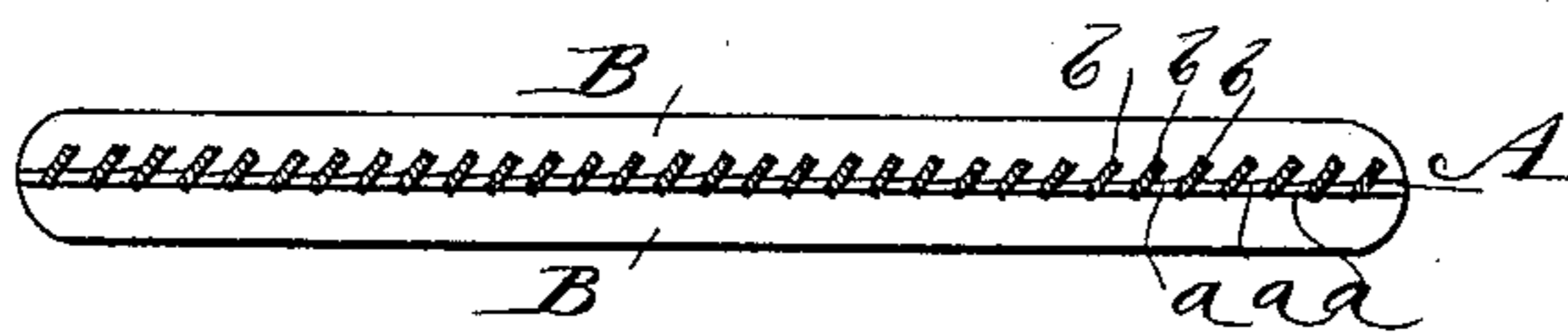
No. 350,260.

Patented Oct. 5, 1886.

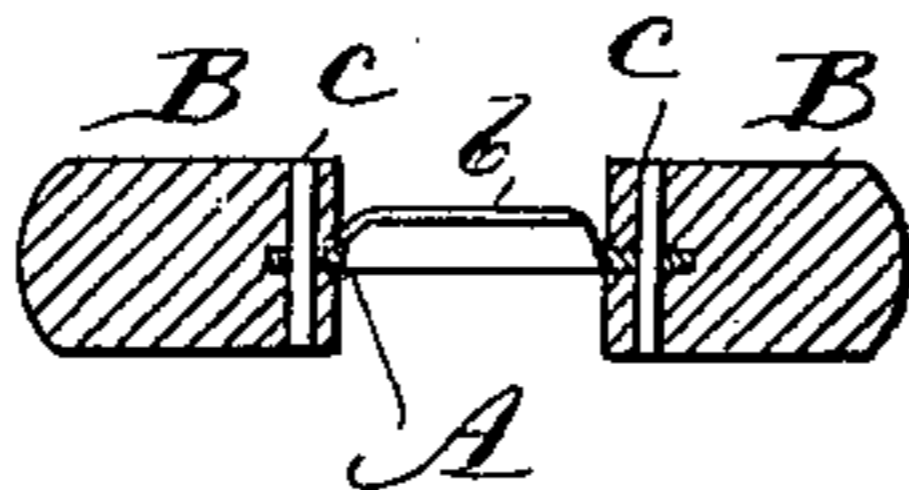
*Fig. 1*



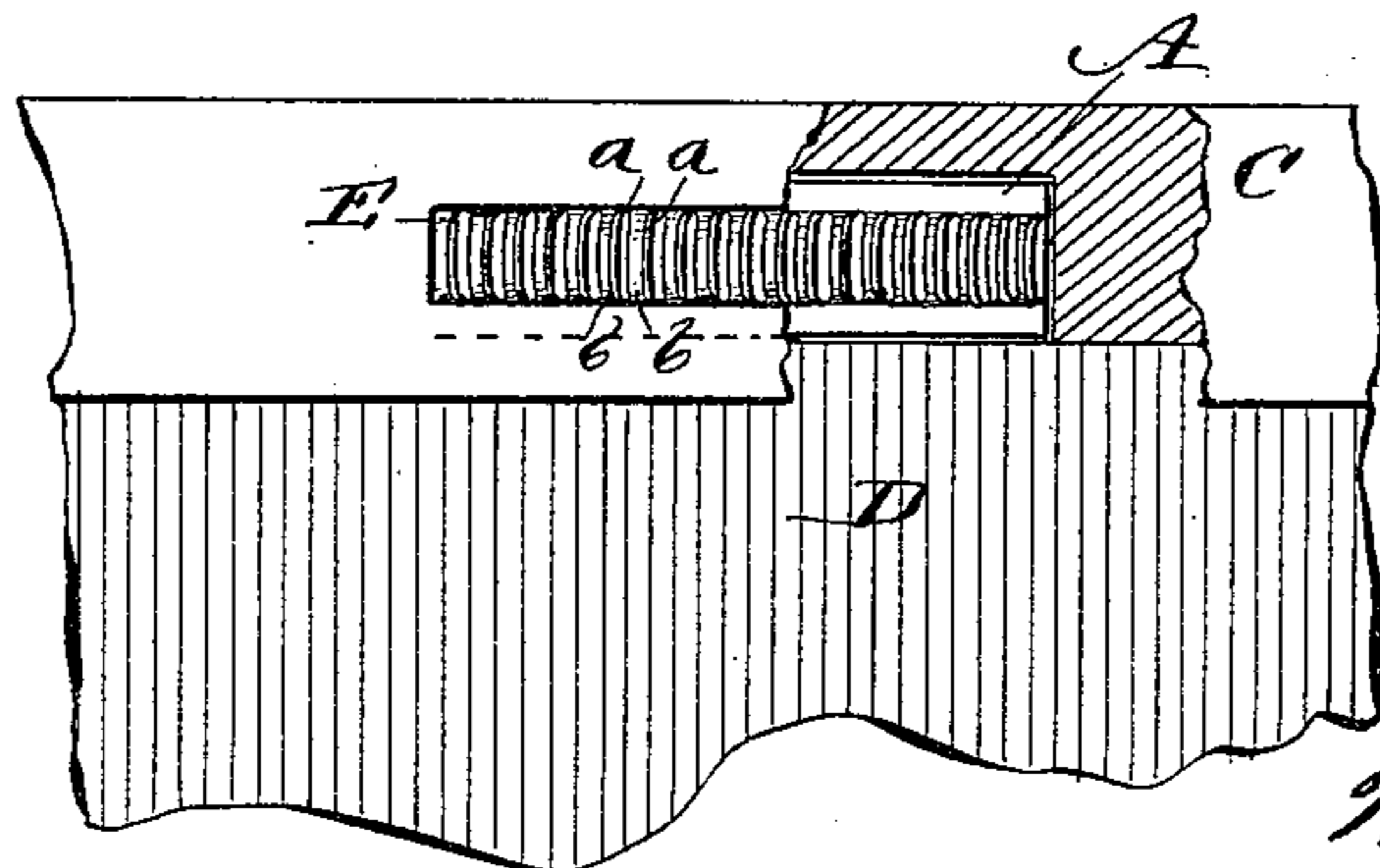
*Fig. 2*



*Fig. 3*



*Fig. 4*



WITNESSES:

*C. Severux*  
*C. Sedgwick*

INVENTOR:

*W. P. Marston*  
BY *Munn & Co*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM P. MARSTON, OF TORONTO, ONTARIO, CANADA.

## PENCIL-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 350,260, dated October 5, 1886.

Application filed April 19, 1886. Serial No. 199,296. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM P. MARSTON, of Toronto, in the Province of Ontario, Dominion of Canada, have invented a new and useful Improvement in Pencil-Sharpeners, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a plan view of my improved pencil-sharpener. Fig. 2 is a longitudinal section taken on line *xx* in Fig. 1. Fig. 3 is a transverse section taken on line *yy* in Fig. 1. Fig. 4 is a plan view, partly in section, showing the manner of applying my improved pencil-sharpener to a slate-frame.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

The object of my invention is to provide a simple, efficient, and durable pencil-sharpener, more especially designed for sharpening slate-pencils, all as hereinafter fully described, and pointed out in the claim.

In the plate A, of steel or iron, case-hardened, are formed series of slits *a*, by means of any suitable machinery, and the metal bars *b* between the slits are twisted at an angle, as shown in Fig. 2, so as to present a series of cutting-edges upon which the pencil may be sharpened by placing it at the required angle and moving it longitudinally along the plate and over the edges of the bars *b*. The mate-

rial removed from the pencil in the operation of sharpening falls through the slits *a*.

The plate, A, of which the sharpener is formed may be secured in the slots of binding-strips B, of wood, by means of rivets *c*, as shown in Figs. 1 and 3; or the plate may be inserted in a mortise in the slate-frame C and held therein by the edge of the slate D, and the cutting-surface of the plate may be exposed through a mortise, E, extending through the slate-frame, as shown in Fig. 4.

Both sides of my improved pencil-sharpener are equally efficient. Therefore it is never necessary to turn over the slate.

The mortise in which the plate A is placed, or the strips B, which are attached to the plate, serve to guide the pencil as it is moved back and forth over the sharpener.

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

As an improved article of manufacture, a pencil-sharpener consisting of a metal plate having a series of transverse bars bent at an angle to the plane of the plate, the edges of the said bars forming a series of cutting-edges on opposite sides of the said plate, as set forth.

WILLIAM P. MARSTON.

Witnesses:

WM. F. ELLIOTT,  
H. A. KNOWLES.