

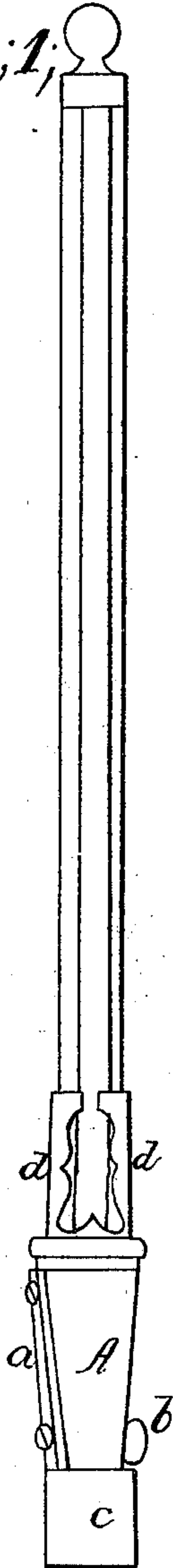
J.L. & D.H. Coles.

Pencil Sharpener.

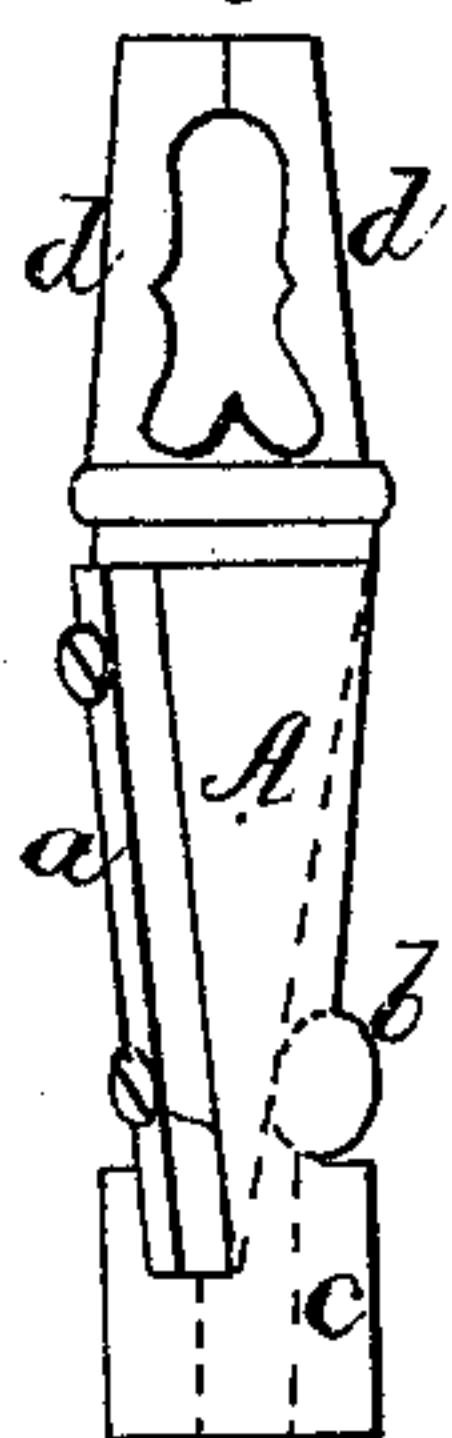
N^o 80,145.

Patented Jul. 21, 1868.

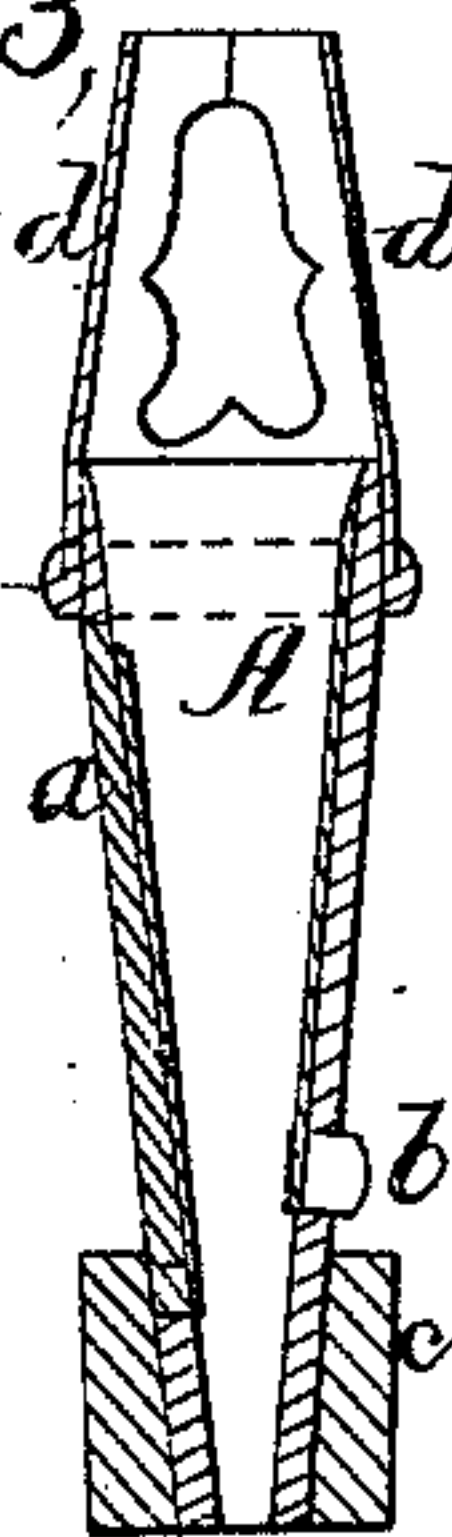
Fig; 1;



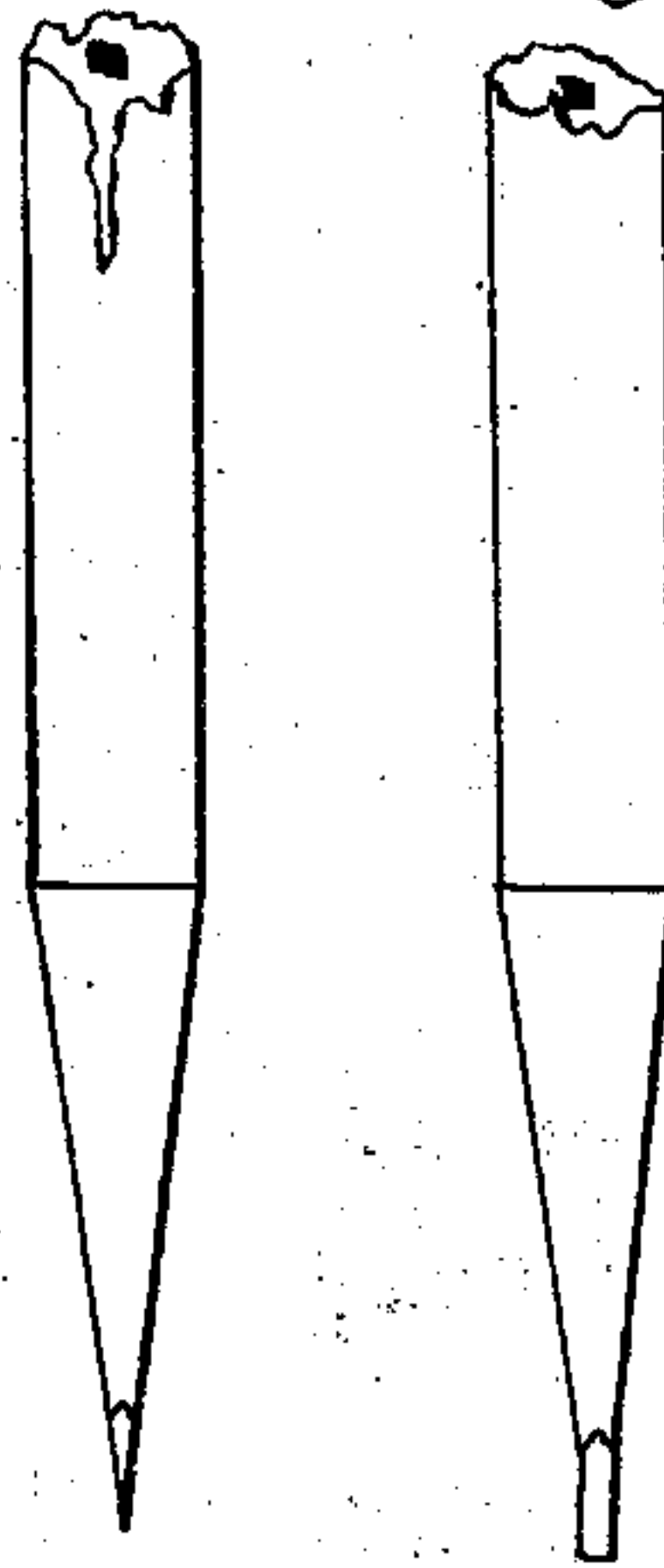
Fig; 2;



Fig; 3;



Fig; 5; Fig; 4;



Witnesses;
E. F. Kastenhuber
Chas. Wahlers

Inventors;
J. L. Coles
D. H. Coles
per
Van Senterford & Harp
Attys.

United States Patent Office.

J. L. COLES AND D. H. COLES, OF NEW YORK, N. Y.

Letters Patent No. 80,145, dated July, 21, 1868.

IMPROVEMENT IN PENCIL-SHARPENERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, J. L. COLES and D. H. COLES, both of the city, county, and State of New York, have invented a new and improved Pencil-Sharpener, Holder, and Eraser, combined; and we do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a side view of this invention, showing its application to a pencil.

Figure 2 is a detached side view thereof.

Figure 3 is a longitudinal section thereof.

Figures 4 and 5 are diagrams of pencil, showing the shape of the points in different stages during the operation of sharpening.

Similar letters indicate corresponding parts.

This invention relates to a pencil-sharpener, to the tip of which is secured a piece of India rubber, in such a manner that the sharpener and rubber are firmly united, and that said sharpener forms a handle which facilitates the operation of using the rubber, while the rubber forms an elastic button; whereby the sharpener is prevented from dropping accidentally out of the pocket of the person carrying the same. From the receiving-end of the sharpener project two spring-jaws, which form a guide for the pencil while the same is being sharpened, and also a holder for the pencil, when the same is inserted into the sharpener, for the protection of its point while being carried in the pocket. That side of the sharpener opposite to the cutter is rendered yielding, and connected to a button in such a manner that, by pressing the button, the point of the pencil can be gradually worked down to the required sharpness.

A represents our sharpener, the body of which is formed of a conical tube, one side of which is perforated with a slot extending nearly throughout the entire length of the tube. On the edge of this slot is secured the cutter *a*, so that its cutting-edge projects into the interior of the tube far enough to produce the desired effect on the pencil to be sharpened. That side of the tube A which is opposite to the cutter is movable, and it is connected to a button, *b*, so that by pressing on said button, the bottom end of the movable side is forced in towards the cutter.

If the button is not pressed in, and a pencil is inserted, the cutter takes off a shaving, and the point of the pencil is worked down to the shape shown in fig. 4, but pressing gently on the button while the pencil is continually turned in the sharpener, the point of the pencil can be brought down to the shape shown in fig. 5, leaving the same perfectly sharp, and in the best possible shape for draughting or writing.

From the large or receiving-end of the conical tube A project two jaws, *d*, which embrace the body of the pencil, and form a guide for the same while it is being sharpened, so that said pencil, on being inserted into the sharpener, is held parallel with the axis of the tube A, and the operation of sharpening is materially facilitated. Said jaws also form a holder for the pencil, retaining the same in the sharpener when inserted therein, for the protection of its point while being carried in the pocket.

To the tip of the tube A we have secured a piece of India rubber, *c*, which serves as an eraser, so that the sharpener forms a convenient handle for the rubber while the same is being used for erasing, and at the same time the rubber forms a button, whereby the sharpener is, to some extent, retained in the pocket of the person carrying the same.

By these means we have produced a sharpener capable of giving to the point of the pencil the proper shape and sharpness, and a holder capable of protecting the point, and also a very convenient eraser.

We are aware that it is not new to apply jaws to a pencil-sharpener in order to protect the points of pencils while being carried in the pocket; such devices we do not therefore claim in themselves.

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

1. The arrangement, with the sharpening-tube A, of the jaws *d*, at the receiving-end thereof, and commu-

nicating with each other so as to act as a support and guide for the pencil while it is being sharpened, and also form a holder to protect its point while being carried, as set forth.

2. The button *b*, in combination with the movable side of the tube A, substantially as and for the purpose set forth.

This specification signed by us, this 29th day of May, 1868.

J. L. COLES,
D. H. COLES.

Witnesses:

E. F. KASTENHUBER,
EVAN CAMPBELL.