

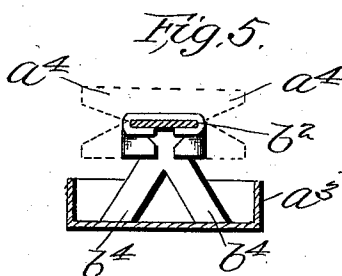
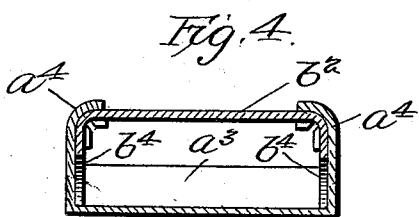
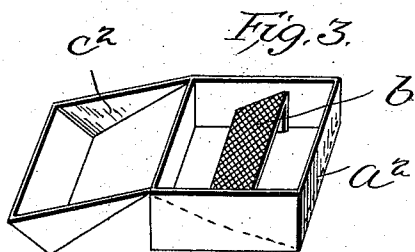
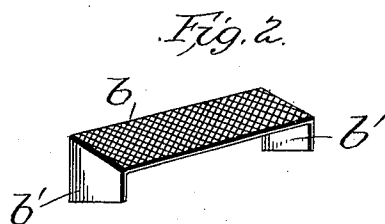
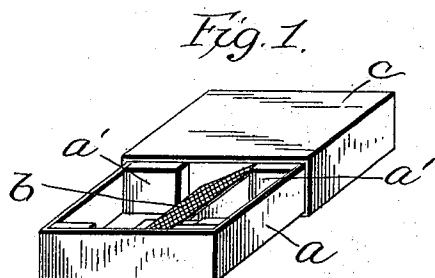
(No Model.)

E. J. KOESTER.

FILE FOR POINTING LEAD PENCILS, &c.

No. 511,338.

Patented Dec. 26, 1893.



Attest
Wm. J. Hall

Inventor
Ernst Joseph Koester
by Richards & Co
Attys

UNITED STATES PATENT OFFICE.

ERNST JOSEPH KOESTER, OF HARKORTEN, GERMANY.

FILE FOR POINTING LEAD-PENCILS, &c.

SPECIFICATION forming part of Letters Patent No. 511,338, dated December 26, 1893.

Application filed January 4, 1893. Serial No. 457,268. (No model.)

To all whom it may concern:

Be it known that I, ERNST JOSEPH KOESTER, a subject of the Emperor of Austria-Hungary, residing at Harkorten, in the Kingdom of Prussia, Germany, have invented new and useful Improvements in or Relating to Files for Pointing Lead-Pencils and the Like, of which the following is a specification.

My invention includes a file having downwardly bent feet to support it over the bottom of the box and other features hereinafter pointed out in the claims.

In the drawings, Figure 1, shows a box with a removable file. Fig. 2, shows the file removed. Fig. 3, shows a different form of file box. Fig. 4, shows a file having feet substantially the same as those in Fig. 1, and arranged in a box which has upward extensions bent around the file. Fig. 5, is a cross section on line $x-x$ of Fig. 5.

In Figs. 1 and 2 the file b is shown with feet b' adapted to enter the guide ways between the blocks a' of the box a and support the file over the box bottom. The box slides within a cover portion c . In Fig. 3, the same form of file b , is used but the box a^2 has a hinged cover c^2 .

In Fig. 4, the file b^2 has feet b^4 which in effect are like those previously described.

The box a^3 in this case, however, has extensions a^4 with lip or lug portions which are bent around the file to hold the same in place. The form of these lip or lug portions is shown in Fig. 5 in dotted lines while the full lines show how they are bent around the file.

I claim—

1. In combination, the box and the file having the feet at its opposite ends both of which are bent downwardly to rest on the bottom of the box and bear on the ends of the same, said feet serving to support the file above the bottom of the box and maintain it in proper position against longitudinal displacement.

2. In combination, the box having the upward extensions, and the file supported therein by said extensions, substantially as described.

3. In combination, the box and the file, said file being held by portions of the receptacle bent about it, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNST JOSEPH KOESTER.

Witnesses:

WM. ESSENWEIN,
RUDOLPH FRICKE.