(No Model.)

L. M. H. M. DAHMS.

INSTRUMENT FOR REDRESSING STEEL PENS.

No. 371,451. Patented Oct. 11, 1887.

Fig. 1.

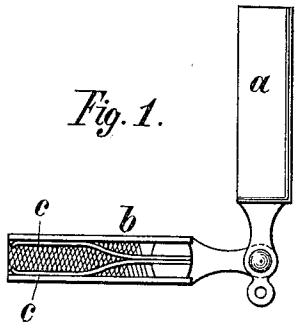


Fig. 2.

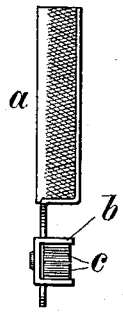


Fig. 3.

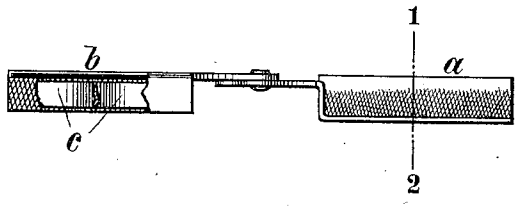


Fig. 4.



Witnesses,
C. T. Bell
Jos Barnard.

Inventor.
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UNITED STATES PATENT OFFICE.

LUDWIG MAGNUS HANS MARIUS DAHMS, OF COPENHAGEN, DENMARK.

INSTRUMENT FOR RE-DRESSING STEEL PENS.

SPECIFICATION forming part of Letters Patent No. 371,451, dated October 11, 1887.

Application filed July 22, 1887. Serial No. 244,989. (No model.)

To all whom it may concern:

Be it known that I, LUDWIG MAGNUS HANS MARIUS DAHMS, a subject of the German Emperor, and a resident of Copenhagen, in the Kingdom of Denmark, have invented certain new and useful Improvements in Re-Dressing Steel Pens, of which the following is a specification.

My invention relates to improvements in re-dressing steel pens; and the object of the same is to sharpen and to re-form worn-out steel pens to their original shape and elasticity. I attain this object by the instrument illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the instrument. Figs. 2 and 3 are side views of the same, Fig. 3 being shown partly in section; and Fig. 4 is a cross-section on line 1 2 in Fig. 3.

Similar letters refer to similar parts throughout the several views.

To re-dress worn-out steel pens it is necessary to sharpen their points, corroded by the writing-ink and deformed by writing on the paper, especially when the latter is rough and hard, in order that they regain their original smoothness and their original shape.

My improved pen re-dresser consists of two pieces, *a* and *b*, connected by a suitable hinge. If the pens are not used very much, and therefore their points want but little sharpening, it will be sufficient to let the points slide a few times in the inner corner of the angle-shaped arm *a*, Figs. 2, 3, and 4, pressing them at the same time slightly into the corner. The arm *a* is provided at its inner faces with extremely-fine file-cuts, or otherwise roughened, and therefore will take as much corroded material off from the point of the pen as to make the latter ready to be used again for writing. If, however, the point of a pen is worn up at higher degrees, and possibly bent, too, the arm *b* of the instrument has to be applied, Figs. 1, 2, and 3. The cross-section of the arm *b* is U-shaped, while that of the arm *a* has the form of a right angle. The inner faces of the arm *b* are covered all over with file-cuts. Two flat springs, *c*, press against the two parallel sides of the arm.

To sharpen a pen its point is placed between the spring and the file cuts when beginning, where the spring *c* does not touch the inner face of the U-shaped arm, and then it is drawn between the spring and the corresponding inner face. By this movement the point of the pen must be pressed toward the inner corners of the arm *b*. The pen is then passed in the same way between the other spring and the other file. Having done so, the pen is turned upside down, and thus passed in the arm *b*, as above described. By these operations both sides and both edges of the pen will become perfectly clean and free from corroded material, thus re-dressing the pen for further use. The bent points will be straightened by the pressure of the springs *c*, and the original shape and smoothness restored.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

In an instrument for re-dressing worn-out steel pens, the combination of an angle-shaped piece, *a*, the inner faces of which are slightly roughened, with the U-shaped piece *b*, the inner face of which is also roughened, and the springs *c*, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 4th day of June, 1887.

LUDWIG MAGNUS HANS MARIUS DAHMS.

Witnesses:
DIEDRICH PETERSEN,
E. HAASE.