G. Singleton,
Silk Cleaner.

No. 76,109. Patented Mar. 31. 1868.

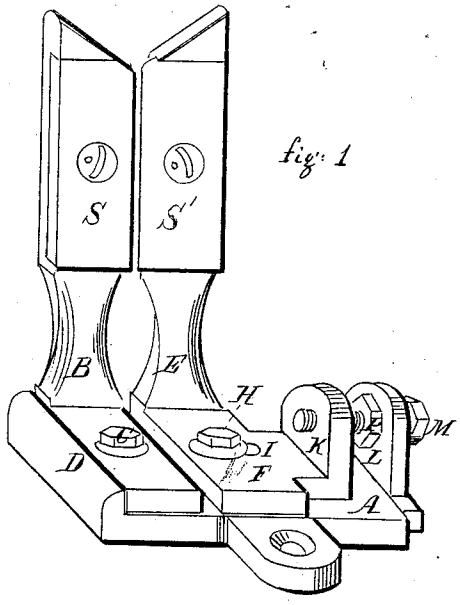


fig: 1

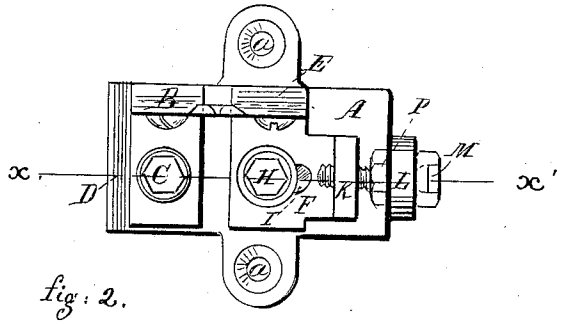


fig: 2.

Witnesses { H. Gengembre Hubert
Andrew R. Fryer

Inventor. George Singleton

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

GEORGE SINGLETON, OF PATERSON, NEW JERSEY.

Letters Patent No. 76,109, *dated March* 31, 1868.

IMPROVEMENT IN SILK-CLEANING KNIFE.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE SINGLETON, of the city of Paterson, in the county of Passaic, and State of New Jersey, have invented a new and improved Silk-Knife; and I do declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective front view, in elevation, of my improved silk-knife, and

Figure 2 is a top view of the same.

This invention relates to that class of instruments having coupled flat blades, and known as silk-knives, used in the art of spinning; and the improvement consists in the construction, combination, and arrangement of the stand, holders, and blades, by which the said blades may be regulated, as regards their respective distance from each other, with great precision, to suit any desired size of thread, in the manner fully described hereafter.

A is the bed-plate of my improved silk-knife, provided with holes, *a a*, for fastening it to the bench or frame where it is to be used.

B is a stationary blade-holder, which is fastened to the plate A by the screw C, and kept in its proper place by the strip D of said plate A.

E is the movable blade-holder, having a foot, F, resting on the plate A, and fastened thereon by the screw H, passing through an oblong hole, I, in the foot F, so that the blade-holder E can move in the direction of the red line *x x'*, and is prevented from moving in any directions at right angle from said line by the screw H.

M is a screw, passing through the hole in the lug L of the plate A without being screwed therein, and having a lock-nut, P, of ordinary construction.

K is a lug or heel, fastened to or made all of one piece with the foot F. The screw M is tapped into the lug K, so that, by turning the said screw M, the movable blade-holder E will be moved in the direction of the line *x x'*, and, when the screw M is locked by the nut P, it will hold the holder E perfectly motionless.

S and S' are the two flat blades, which are fastened to the holders B and E by the screws O and O'.

Operation.

The operation of my improved silk-knife is as follows: The blades being fastened to the holders in such a manner that they will be perfectly parallel, having their edges, R R', in contact, the screw M is turned to the right, causing the head of said screw M to come to a bearing on the lug L, and drawing the foot, F, towards the said lug L. This will cause the blades to be parted, as the plate A is plane, and the foot, F, fitted perfectly on the same; and the edges, R R', of the blades S S' are at right angles with the plane of the plate A, which becomes the line of motion of the holder E and blade S'. It follows that, whatever the distance between the plates S S', their edges, R R', will always remain parallel to each other.

When the distance between the blades S S' is too great, the screw M is turned to the left, and, when the blades S S' are properly set, the lock-nut P is tightened, which keeps the knives perfectly still.

I know that silk-knives have been made, where the blades are adjustable on stationary holders, by means of slotted holes in the blades, the blades being adjusted by knocking on their edges, and, when in position, are screwed fast. I know also that blades have been fastened from a common centre, at one of their ends, which rendered them susceptible of being drawn apart and brought together at their other ends; and, in that last arrangement, the edges of the knives could never be parallel, causing an irregular gauging of the knives. Neither of these devices or arrangements do I claim; but

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The improved parallelly-acting silk-knife, composed of the blade S, holder B, and plate A, the blade S', holder E, foot, F, slotted hole I, screw H, lugs K and L, and screw M, combined and arranged in the manner and so as to operate substantially as set forth.

GEORGE SINGLETON. [L. S.]

Witnesses:

H. GENGEMBRE HUBERT,

ANDREW R. FRYER.