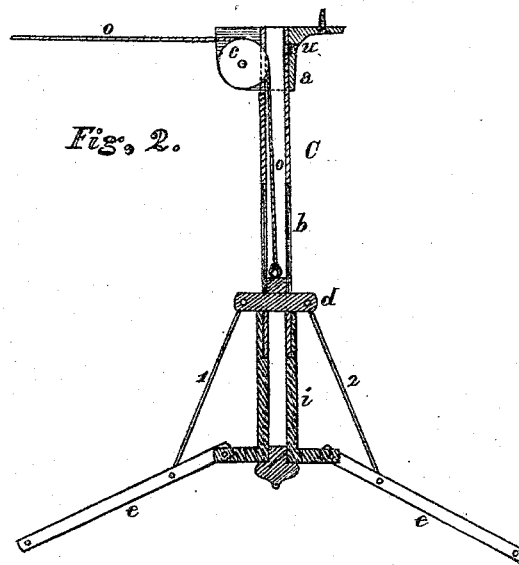
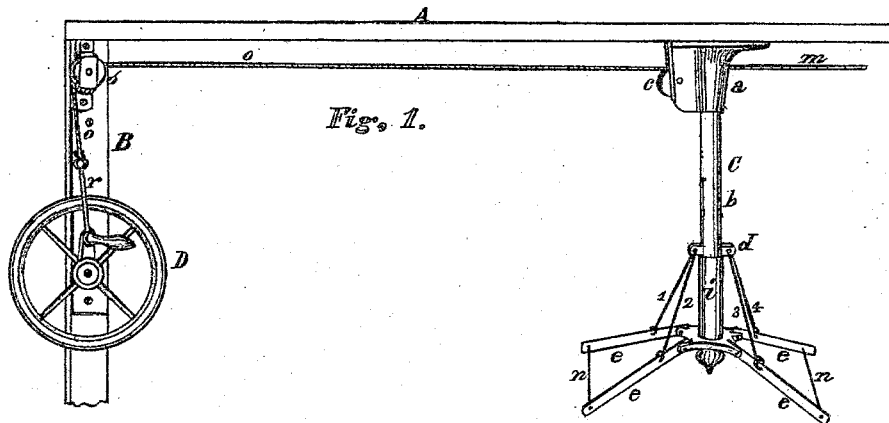


H. E. AUGHINBAUGH.

Improvement in Mechanical Fly Brushes.

No. 115,560.

Patented June 6, 1871.



Inventor. Witnesses.

Henry E. Aughinbaugh  
H. E. Aughinbaugh  
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# UNITED STATES PATENT OFFICE.

HENRY E. AUGHINBAUGH, OF HARRISBURG, PENNSYLVANIA.

## IMPROVEMENT IN MECHANICAL FLY-BRUSHES.

Specification forming part of Letters Patent No. 115,560, dated June 6, 1871.

*To all whom it may concern:*

Be it known that I, HENRY E. AUGHINBAUGH, of the city of Harrisburg, county of Dauphin and State of Pennsylvania, have invented a new and useful Improvement in Fly-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing making a part of this specification.

In order to enable others skilled in the art to construct the device, I will proceed to describe it.

In the drawing, Figure 1 represents a perspective view of the fly-brush in position ready for use. Fig. 2 is a vertical section of the same.

This implement is designed to be made stationary, it being fastened to the ceiling in proper position over the table or any other desirable location. In Figs. 1 and 2, C represents the fly-brush. It consists of a piece of gas-pipe, or other similar tube or pipe, of proper dimension and length. Said pipe *b* is provided with a flanged ferrule, *a*, that is rigidly attached to its upper end. This ferrule has two parallel flanges formed upon its side, a space of proper width intervening between them. They are intended to retain and hold in proper position the grooved pulley *c*. Directly opposite this pulley a proper-sized hole is formed in the body of the ferrule, as is shown in Fig. 2 at U. The lower end of the tube or pipe *b* has a ferrule, *i*, rigidly attached to it. Said ferrule has a flange projecting at a right angle from its body, at or near the lower end. This flange is so constructed as to form ears or lugs that serve to hold in proper position the four arms, *eeee*, as is shown in Fig. 1. The arms *eeee* are pivoted at their inner ends to the lugs so as to permit them to move freely up and down. The pipe *b* has two vertical slots of proper length formed in its body directly opposite each other; and immediately above the upper end of the ferrule *i* a cross-head, *d*, is constructed, as shown in Fig. 2, and is of such relative size to the slots in pipe *b* as to permit it to play freely in them. The projecting ends of cross-head *d* have holes drilled in them to receive the stay-rods 1, 2, 3,

4. These rods are connected by their lower ends to the arms *eeee* at an equal distance from their ends. The stay-rods are so connected as to permit a free movement vertically of the arms *eeee* when the cross-head *d* is drawn up. The outer ends of the arms have holes formed in them to admit cords *nn*, upon which fly-paper, tissue-paper, or other suitable material, may be affixed. Paper cut in proper form can also be attached to the arms themselves, between the stay-rods and outer ends. A cord, *oo*, is attached to the top of cross-head *d*, and passes up through the pipe *b* and over the pulley *c*. Where but one is used it may be operated by simply pulling the cord *o* and then relaxing it. This will cause the cross-head to play up and down the slots and operate in a similar manner the arms *eeee*.

Should it be desired to use a number of the brushes they may be placed in a line with each other, and the whole series operated by the crank-wheel D. In this case the wheel should be fastened to the side wall of the room, and the cord *oo*, passing through the fixed pulley-block S, is fastened to the rod *r*, that connects in such a way with the crank-handle as to cause it to give motion to the cross-head *d* of the fly-brush.

The operating-cords of the several brushes are passed through the holes U, as seen at *m*, Fig. 1. They can be attached one to the next preceding one, or all continued to the block S, as may be desired.

Having given a full, clear, and exact description of my improvement and its manner of operation, what I claim as my improvement in a mechanical fly-brush is—

The construction and combination of the flanged ferrule *a*, to secure it to the wall or other desirable location, with its pulley *c*, crank-wheel with its connection, cord *o*, pipe or tube *b* with the ferrule *i* flanged, with its ears and connecting-arms *eeee*, cross-head *d* with its stay-rods 1, 2, 3, 4, all as shown and described, and for the purpose specified.

HENRY E. AUGHINBAUGH. [L. S.]

Witnesses:

C. A. AUGHINBAUGH,  
CHAS. R. KIGER.