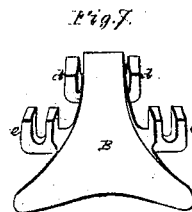
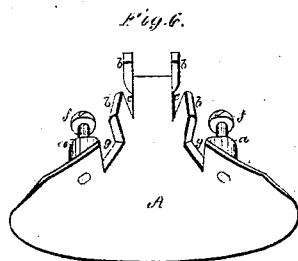
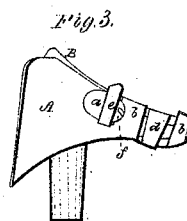
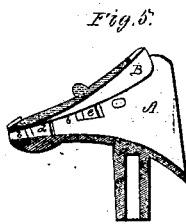
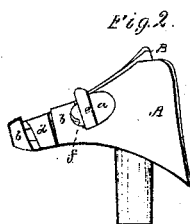
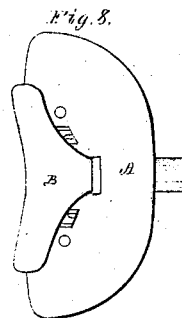
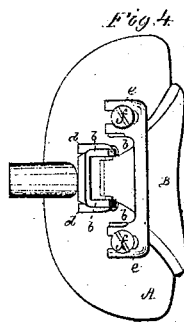
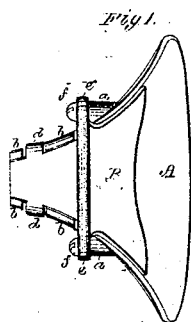


G. Draper,
Spinning Machine.
No. 110021. Patented Dec. 13. 1870.



Witnesses.

S. H. Piper
L. N. Moller

George Draper.

by his attorney

R. H. Eady

United States Patent Office.

GEORGE DRAPER, OF HOPEDALE, MASSACHUSETTS.

Letters Patent No. 110,021, dated December 13, 1870.

IMPROVEMENT IN TRUMPETS FOR SPINNING-MACHINES.

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

To all persons to whom these presents may come:

Be it known that I, GEORGE DRAPER, of Hopedale, of the county of Worcester and State of Massachusetts, have invented an Improved Trumpet for Spinning-machines; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view;

Figures 2 and 3, opposite side elevations;

Figure 4, a front end view; and

Figure 5 a longitudinal section of it.

Figures 6 and 7 are perspective views of the two main parts of the trumpet as separated from each other.

Figure 8 is a rear elevation of it.

The purpose of the trumpet, as hereinbefore explained, is to enable the size of the aperture of discharge of the trumpet to be varied according to the size of sliver to be made by the spinning-machine.

To this end I form the trumpet in two separate parts, A B, having interlocking guides or ears, and with connecting devices by which the upper part may be moved within the other, and adjusted either nearer to or further from its bottom, as circumstances may require.

In the drawing—

The lower part A of the trumpet is represented as open at top its entire length, and as a flaring trough provided with two abutments or shoulders, *a a*, and guides *b b*, there being spaces, *c c*, between such guides, all being arranged in manner as shown.

The upper portion B is a cap, curved or formed as exhibited, and having two guides, *d d*, to enter the spaces *c c*, and also two slotted projections or ears, *e e*, to rest against the shoulders *a a*, and be secured thereto by clamp-screws *f f*, the whole being so as to enable the cap-plate at its lesser end to be brought down into contact with the mouth-piece A, or raised up therein to the height of the guides of such part B.

The lower part A has openings, *g g*, for reception of the ears *e e*.

The pairs of guides of the two parts A B, by being arranged relatively to each other, as exhibited in the side elevations of the trumpet, operate to prevent the sliver from catching in the joints of the said parts A B, and admit of such joints being made quite open.

This trumpet will effect a great saving in the outlay for trumpets for a drawing or spinning-machine, for, instead of being obliged to have for it a series of trumpets of different sizes, as heretofore, one only of the new kind will be required.

I make no claim to the broad idea of a variable trumpet.

I claim as my invention—

The sliver-trumpet, as constructed in two parts, A B, provided with the guides *b b d d* and the means of connection and adjustment, all substantially as specified and represented.

GEORGE DRAPER.

Witnesses:

R. H. EDDY,

J. R. SNOW.