(No Model.)

C. CHARPENTIER.

TOOL FOR SEIZING FIBERS AND OTHER OBJECTS OF SMALL DIAMETER.

No. 389,195. Patented Sept. 11, 1888.

FIG. 3.

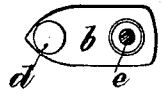


FIG. 4.

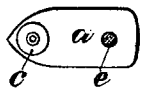


FIG. 1.

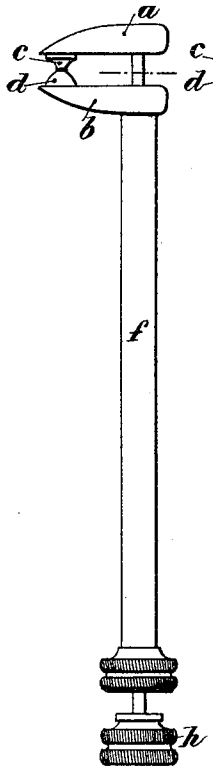


FIG. 2.

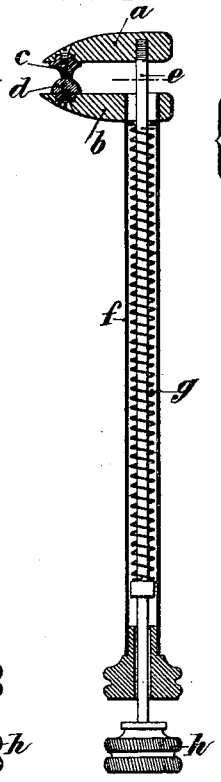
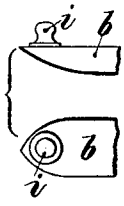


FIG. 5.



Witnesses:

John M. Speer.

Harry C. Burg.

Inventor:

Camille Charpentier

by Briesen & Steele

attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CAMILLE CHARPENTIER, OF PARIS, FRANCE.

TOOL FOR SEIZING FIBERS AND OTHER OBJECTS OF SMALL DIAMETER.

SPECIFICATION forming part of Letters Patent No. 389,195, dated September 11, 1888.

Application filed September 10, 1887. Serial No. 249,331. (No model.) Patented in France February 22, 1887, No. 181,733.

To all whom it may concern:

Be it known that I, CAMILLE CHARPENTIER, of the city of Paris, France, have invented an Improved Tool for Seizing Fibers and other Objects of Small Diameter, (for which I have obtained Letters Patent in France for fifteen years, No. 181,733, dated February 22, 1887,) of which the following is a full, clear, and exact description.

My invention relates to an improved tool or implement for seizing objects of small diameter, such as animal or vegetable fiber, horse-hair, metal wire, beads, &c.

The tool may, for example, be used for seizing one or more hairs, fibers, or wires from a bundle for the purpose of drawing them out from the mass or for taking up one or more small round objects from a number, such as lead grains, beads, &c.

My invention, which consists more particularly in the construction of the jaws of the tool, is illustrated by way of example in the accompanying drawings, wherein—

Figure 1 represents an elevation of a tool for seizing a single fiber or other object, and Fig. 2 a longitndinal central section of same. Fig. 3 is an inner face view of the lower jaw, and Fig. 4 is an inner face view of the upper jaw. Fig. 5 shows a modified arrangement of the lower jaw adapted for seizing several fibers or other objects at a time.

The same letters of reference represent the same parts in all the figures.

The nipper consists, essentially, of two jaws, *a b*, bearing the studs or nipping-surfaces *c d*. The stud *c* is of truncated conical form and hollowed or perforated at the center, and the lower stud, *d*, is of conical form, preferably flattened on top. The jaws may be operated in any suitable manner. In the example shown the jaw *a* is mounted on a stem, *e*, sliding in a tubular sheath or handle, *f*, to which the lower jaw, *b*, is fixed. A spiral spring, *g*, surrounds the stem *e*, so that on pressing the button *h* on the end of said stem the jaws of the nipper will be separated, and on releasing the button the spring *g* will immediately close the jaws.

By opening the jaws and thrusting the tool into a bundle of fibers—such as horse-hair, for example—and then allowing the jaws to close together, the flattened conical stud *d* will enter the hollow or perforation in stud *c* and imprison a fiber between the two, which can be then withdrawn from the mass. If it is desired to extract several fibers at a time, the stud *d* would be replaced by one having a rounded head, as shown at *i*, Fig. 5.

This improved tool may be mounted on any kind of machine and operated automatically. It is more particularly useful in the manufacture of horse-hair fabrics.

The form and dimensions of the several parts of the tool may be varied, as well as the material of which it is made, according to requirements.

I claim—

A nipping-tool having jaws *a b* and means for moving them, the one jaw being provided with a truncated conical stud having a central hollow or perforation, and the other jaw provided with a stud, *d*, to engage the stud *c*, substantially as described, and for the purpose specified.

The foregoing specification of my improved tool for seizing fibers and other objects of small diameter signed by me this 18th day of August, 1887.

CAMILLE CHARPENTIER.

Witnesses:
ROBT. M. HOOPER,
ALBERT MOREAUX.