

F. A. STOHLMANN.

SURGICAL SAW.

No. 184,804.

Patented Nov. 28, 1876.

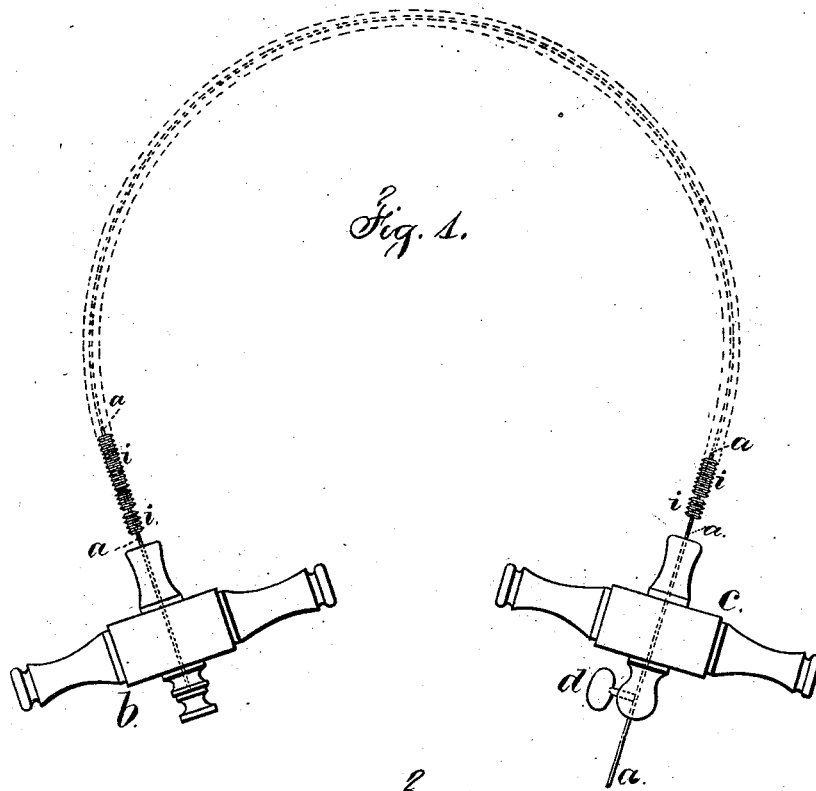


Fig. 1.



Fig. 2.

Witnesses

Chas. Smith
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UNITED STATES PATENT OFFICE.

FREDERICK A. STOHLMANN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SURGICAL SAWS.

Specification forming part of Letters Patent No. **184,804**, dated November 28, 1876; application filed October 5, 1876.

To all whom it may concern:

Be it known that I, FREDERICK A. STOHLMANN, of Brooklyn, in the county of Kings and State of New York, have invented an Improved Saw for surgical or other purposes, of which the following is a specification:

Chain and band saws for surgical uses are known. They, however, cannot be operated in any direction.

My improvement is especially intended for sawing out or removing pieces of injured bone, and it may be used for surgical and general purposes, and consists of a series of beads or cylindrical or spheroidal cutters, threaded upon a steel wire or strong flexible thread or wire, and provided with handles, whereby to operate such saw by drawing it back and forth through a hole bored in the bone, at which to commence to saw, or in any other convenient manner, the surfaces of such beads having peripheral cutting-edges to operate in any direction in which the pressure of the cord or wire may act in drawing the saw first one way and then the other. This saw may be used as a file in removing the surface of bone or other articles.

In the drawing, Figure 1 is an elevation of the two ends of the saw, and Fig. 2 is a section of one bead in larger size.

The wire, cord, or gut *a* is connected at one or both ends to the handles *b c*. At one or both ends it passes through the handle, and is secured by the clamping-screw *d*, or otherwise. The saw-beads *i* are threaded upon this wire *a*, and each bead is made with peripheral cutting edges, as seen in Fig. 2, so that the saw can be operated in any direction by drawing the same back and forth through or over the bone or other substance to be sawed or filed.

If a hole is bored through a bone, the saw can be threaded through the same, after taking one of the handles off. The sawing will commence in the hole.

I claim as my invention—

The saw or abrading instrument, made of a range of beads upon a wire or flexible core, with handles at the ends, each bead having peripheral cutting-edges, substantially as set forth.

Signed by me this 29th day of September, A. D. 1876.

FREDK. A. STOHLMANN.

Witnesses:

GEO. D. WALKER,
HAROLD SERRELL.