UNITED STATES PATENT OFFICE.

MILO A. RICHARDSON, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN PROCESSES FOR SHARPENING FILES.

Specification forming part of Letters Patent No. **199,573**, dated January 22, 1878; application filed October 12, 1877.

To all whom it may concern:

Be it known that I, MILO A. RICHARDSON, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and valuable Improvement in Sharpening Files; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

This invention consists in a new process or method for resharpening files, as will be hereinafter more fully set forth.

In the ordinary use of a file the resistance of the metal upon which it operates tends to wear away the points of the teeth, and thereby unfit said file for use.

Heretofore files in this condition have either been discarded as worn out, or renovated by tedious, toilsome, and insufficient methods.

I substitute for these methods the use of the well-known sand-blast—of a stream of sand driven by steam or air, heated or not—which I direct against the back of the teeth at an angle of from five to ten degrees away from the handle end of the file that is to be sharpened.

The result of this application is, that the stream of sand impinging upon the file-teeth rapidly wears them away at the back, thus speedily resharpening said teeth.

This method or process is applicable to files of any kind or construction.

What I claim is—

The method of resharpening files by directing upon them a sand-blast, operating to wear or grind away the back of the teeth, and to repoint the same, substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MILO A. RICHARDSON.

Witnesses:

GEO. W. LEWIS,

HENRY B. BARTRAM.