

(No Model.)

L. MAILLARD.
DENTAL DRILL.

No. 482,558.

Patented Sept. 13, 1892.

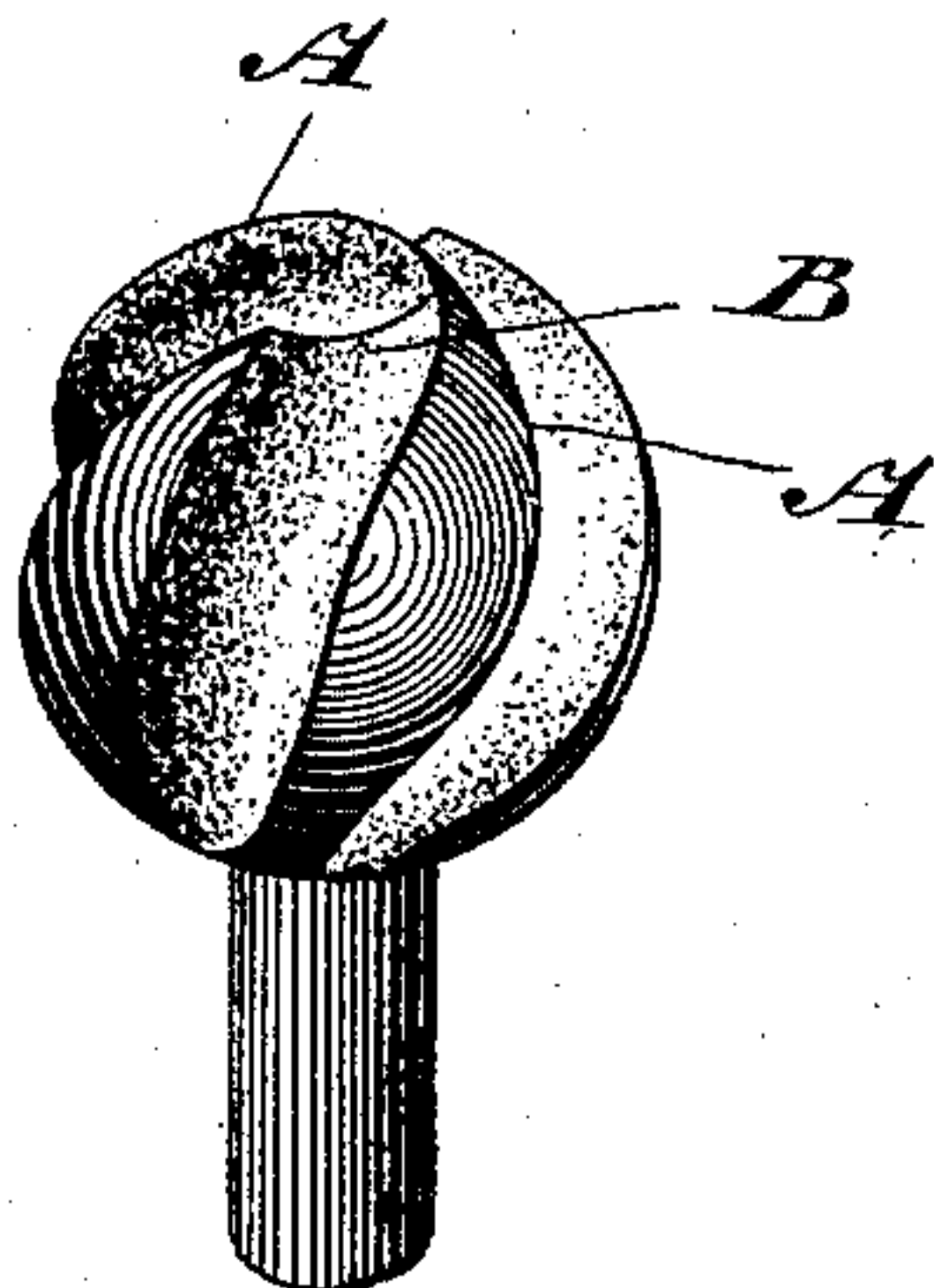


Fig. 1

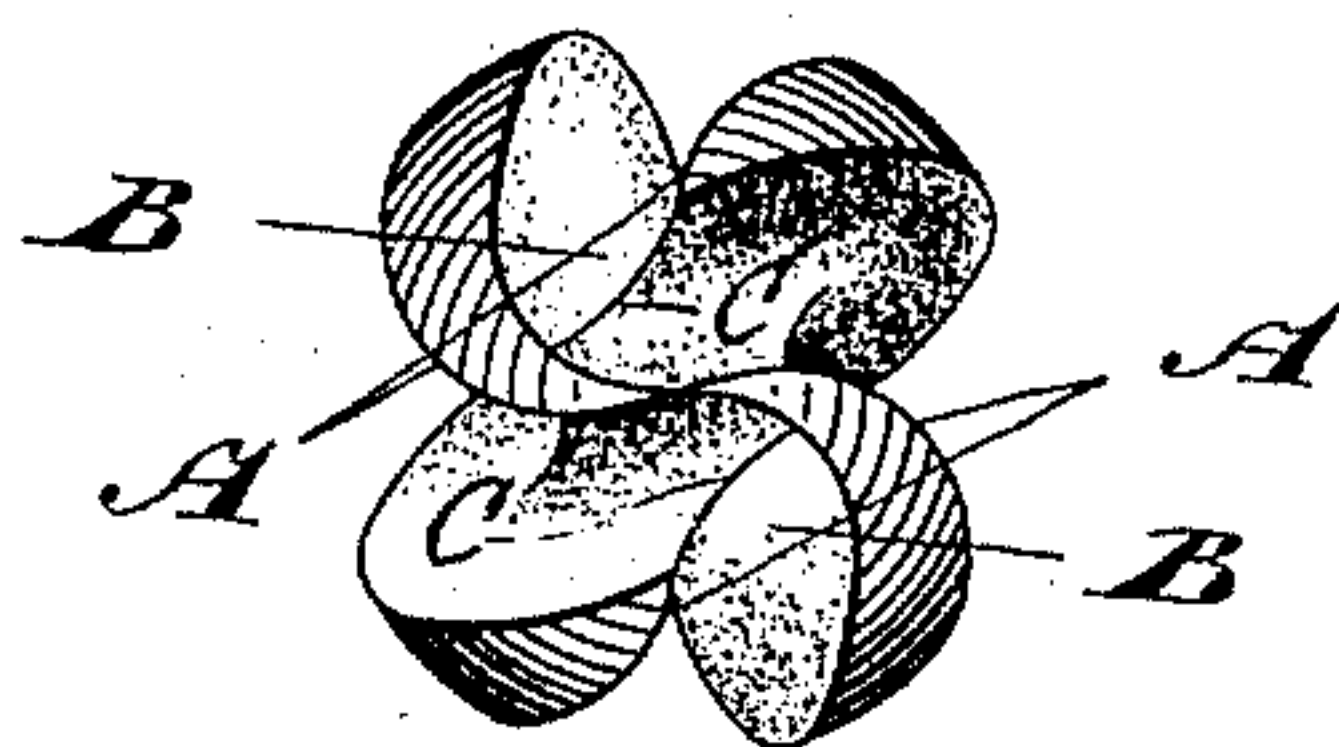


Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

LOUIS MAILLARD, OF GALT, CANADA.

DENTAL DRILL.

SPECIFICATION forming part of Letters Patent No. 482,558, dated September 13, 1892.

Application filed March 31, 1892. Serial No. 427,230. (No model.)

To all whom it may concern:

Be it known that I, LOUIS MAILLARD, of the town of Galt, in the county of Waterloo, in the Province of Ontario, Canada, have invented a certain new and useful Improvement in Dentists' Burring-Tools, of which the following is a specification.

The object of my invention is to form the cutting-edges of the burring-tool in such a manner that they will each present a clean shaving or cutting edge and have ample clearance, so that the tooth substance will get away freely without interfering with the cutting-edges; and it consists, essentially, in the peculiar construction, arrangement, and combinations of parts, hereinafter more particularly described, and then definitely claimed.

In the accompanying drawings, Figure 1 is an enlarged perspective view of my improved dentists' burring-tool. Fig. 2 is an enlarged plan of same.

As a rule dentists' excavating or cavity burrs are made of different shapes and sizes and shaped to cut into the tooth substance whether by directing the pressure on a line with the axis of rotation or at any angle to this axis; but in the formation of burrs other than mine their cutting-edges are apt to clog and make the operation painful to the patient. By the adoption of my device work may be done more rapidly and will cause much less pain than any other burr with which I am familiar.

On reference to the drawings it will be seen

that there are four spiral cutting-edges A. 35
These edges are somewhat of a spiral form, and the clearing-spaces are made so as to give the cutting-edges sort of a hook-shape, enabling them to cut freely, like the cutting-edges of a twist-drill. It will be observed 40
that two of the cutting-edges A connect in the center, while the others are cut away and pointed at their lower ends, leaving clearing-spaces B, which allow the chips to fall out freely without any danger of them clogging 45
the cutting-edges of the instrument. Between the pointed cutting-edges and the connected ones are other cutting edges C, running from the points of the pointed cutting-edges to those that are connected. I do not confine 50
myself to any particular number of cutting-edges; but I think that the form shown in the drawings, in which only four cutting-edges are employed, will be found preferable.

What I claim as my invention is— 55

A burr-drill having a series of hook-shaped cutting-edges, two of which are joined in the center and another two terminating in points on opposite sides of the first two, and cutting-edges running between the pointed and continued cutting-edges, substantially as described. 60

Galt, February 13, 1892.

LOUIS MAILLARD.

In presence of—

W. W. LAIDLAW,

WM. WALLACE,

W. S. TURNBULL.