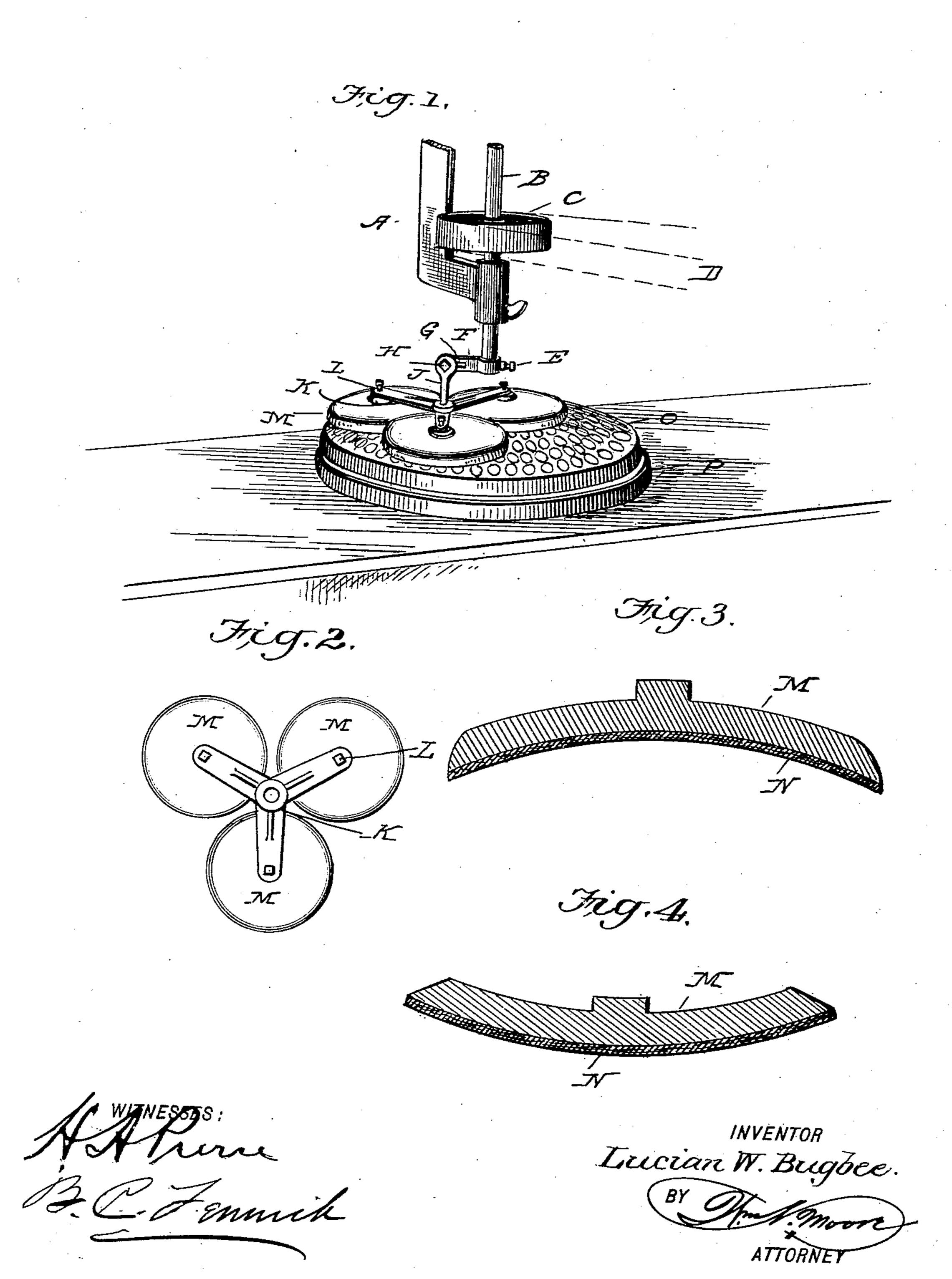
L. W. BUGBEE. LENS POLISHER.

(Application filed Sept. 17, 1900.)

(No Model.)



United States Patent Office.

LUCIAN WILLIS BUGBEE, OF SOUTHBRIDGE, MASSACHUSETTS.

LENS-POLISHER.

SPECIFICATION forming part of Letters Patent No. 684,187, dated October 8, 1901.

Application filed September 17, 1900. Serial No. 30,284. (No model.)

To all whom it may concern:

Be it known that I, Lucian Willis BugBee, a citizen of the United States, residing
at Southbridge, in the county of Worcester
and State of Massachusetts, have invented
certain new and useful Improvements in LensPolishers; and I do declare the following to
be a full, clear, and exact description of the
invention, such as will enable others skilled
in the art to which it appertains to make and
use the same, reference being had to the accompanying drawings, and to the letters of
reference marked thereon, which form a part
of this specification.

15 My invention relates to improvements in lens-polishers; and the object of my invention is the provision of a lens-polisher which will do the work more rapidly and satisfactorily than has heretofore been accomplished and which will be of inexpensive, simple, du-

rable, and practical construction.

To attain the desired object my invention consists of a lens-polisher embodying novel features of construction and combination of parts, substantially as disclosed herein.

In order that the details of construction and the operation of my improved lens-polisher may be readily understood and its many advantages be fully appreciated, I have shown in the accompanying drawings mechanism embodying my invention.

Figure 1 represents a perspective view of my invention complete in operative position. Fig. 2 represents a top plan view of the frame and polishing-disks, and Figs. 3 and 4 represent sectional views of the two forms of disks used in polishing convex and concave surfaces.

In the drawings, A designates the bracket which supports the driving-shaft B, which carries the pulley C, upon which operates the driving-belt D. Upon the lower end of the driving-shaft is detachably secured, by means of the set-screw E, the arm F, having the slot G, in which is mounted the pin or stud H at the upper end of the rod J, and to the lower end

of the rod is revolubly mounted the spider or bracket K, upon the outer ends of the arms of which are journaled the shafts L, upon which revolve the disks M, which are provided on their concave and convex faces, according to the work to be done, with felt or like material N, and the polisher-disks travel over the lenses mounted in the holder O, which is secured upon the support P.

In operation motion is transmitted to the driving-shaft, which motion revolves the disks, said disks also turning on their respective shafts or axles, and the connection of the rod which supports the disks also having 60 a motion on the crank-arm secured to the driving-shaft. Thus to the polishing-disks are imparted four distinct motions, which insures a rapid polishing of the lenses, also prevents undue wear upon any one of the disks, as the 65 wear is evenly distributed to the surface of all of the series, also does not heat the lenses more than is necessary, as the cool air has access to all of the disks, and the work generally is more satisfactory in every particular 70 than could be otherwise obtained.

I claim-

In a lens-polisher, the combination of the vertical driving-shaft, the crank detachably connected to the driving-shaft and having its 75 outer end formed with a slot, the short rod having its upper end secured adjustably in said slot of the crank, the spider-frame rotatably connected to the lower end of the rod, the series of polishing-disks rotatably mount-80 ed in the arms of the frame, and lens-block arranged under the disks and carrying a number of lenses to be acted upon by the series of polishing-disks, and the stationary support for the lens-block to hold the lenses station-85 ary while acted upon by the polishing-disks.

In testimony whereof I affix my signature

in presence of two witnesses.

LUCIAN WILLIS BUGBEE.

Witnesses:

CHAS. S. MCKINSTRY, BENAJAH L. BUGBEE.