No. 891,782. PATENTED JUNE 23, 1908.

C. P. MORTON.

LAST LATHE CENTER.

APPLICATION FILED NOV. 21, 1907.

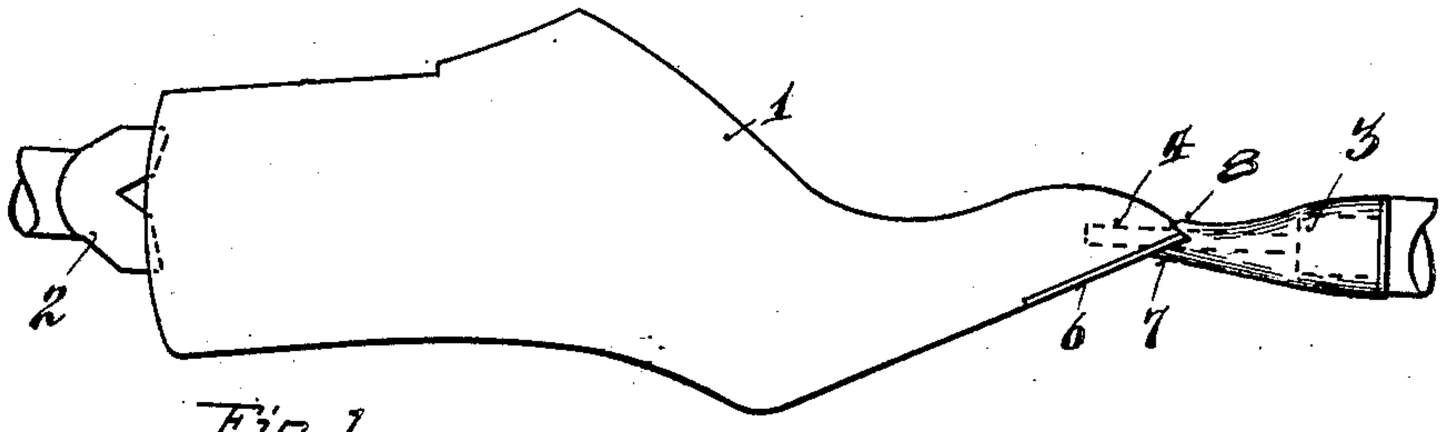

Fig. 1.

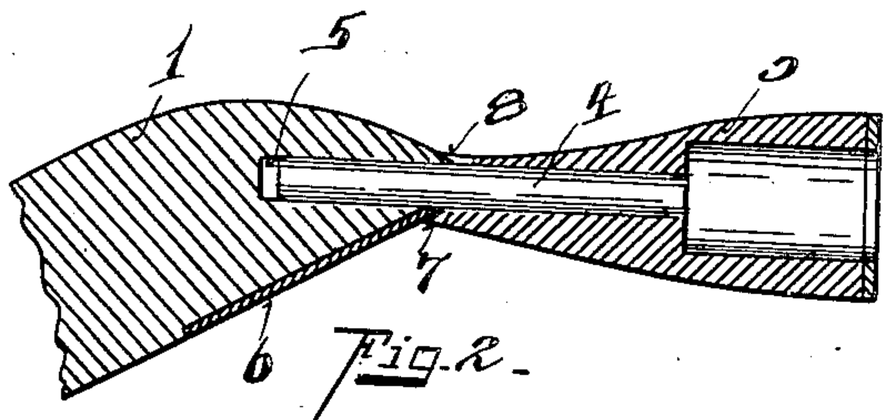

Fig. 2.

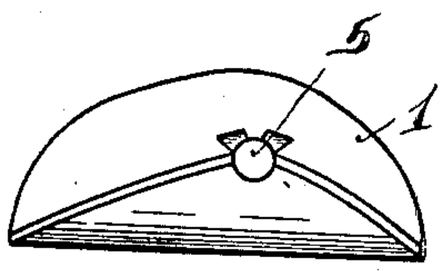

Fig. 3.

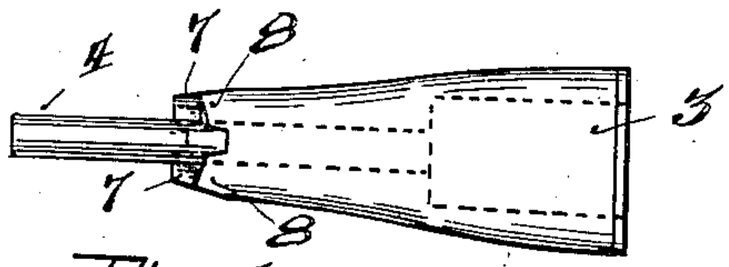

Fig. 4.

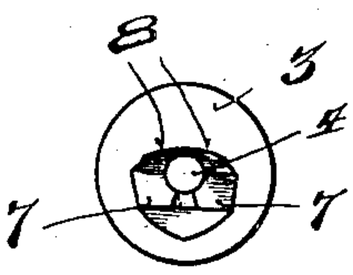

Fig. 5.

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UNITED STATES PATENT OFFICE.

CHARLES P. MORTON, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO THE REBHUN LAST COMPANY, OF CINCINNATI, OHIO, A CORPORATION.

LAST-LATHE CENTER.

No. 891,782. Specification of Letters Patent. Patented June 23, 1908.

Application filed November 21, 1907. Serial No. 403,234.

To all whom it may concern:

Be it know that I, CHARLES P. MORTON, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Last-Lathe Centers, of which the following is a specification.

My invention relates to a last form and a lathe centering piece therefor.

In styles hitherto in use the construction and relation of the dog and the last form have been such as to leave quite a deal of surplus material at and around the points of support, which afterwards has to be removed. This is not only extra expense and extra labor but the resulting last form is not entirely true. I have designed to overcome this objection and by so constructing the support and placing it in such relation to the last form that it produces to the minimum the amount of surplus material afterwards to be removed, and indeed it is possible with the principle of my invention to practically eradicate any surplusage.

The principle of the invention consists in providing the last form with a dowel-pin orifice immediately at the toe in a line corresponding with the longitudinal axis of the form. The lathe dog has a pin fitting said orifice and a slight lip designed to have a slight bearing perfectly on the sole of the toe to coöperate with the pin in properly holding the form and occupying the least possible space. Thus the last form is not only held perfectly true but the gripping surface of the dog on the toe of the last is reduced to the slightest possible dimensions commensurate with the secure hold.

The features of my invention will be more fully set forth in the description of the accompanying drawings forming a part of this specification, in which:—

Figure 1 is a side elevation of a last form clamped between the two lathe centers, illustrating the position occupied in a last lathe. Fig. 2 is an enlarged vertical section through the front portion of the last form and dog. Fig. 3 is a front elevation of the toe portion of the last form. Fig. 4 is a top plan view of the dog. Fig. 5 is a front elevation thereof.

In the usual last lathe the form 1 is clamped between two centers and is revolved in any well known manner, and as the features of my invention relate only to one of the centers, it is thought that the operation can be understood without illustrating or describing any of the usual forms of last lathes. Likewise, the lathe center or dog 2 chucking the heel portion of the last form may be of any well known construction.

In order to cut a last to the shape of a given form it has been found highly desirable to center the last along a given line between toe and heel of the form, so as to strike the center of the last form. The construction of the toe centers heretofore employed necessitate quite a surplus of material to be cut off and trimmed in finishing a last after the lathe work has been completed. By the use of my center or dog a very small portion of surplus material remains on the last after it has been finished in the lathe to be trimmed off by hand or otherwise.

3 represents my toe center provided with the projecting lug 4 adapted to seat within an orifice 5 formed in the toe portion of the last form.

6 represents a metal plate secured to the bottom of the last form at the toe portion thereof.

7 represents teeth projecting from the center 3 provided with an inclined face corresponding to the inclination of the bottom of the last, forming gripping means for preventing the last form from turning independent of the center.

8 represents teeth projecting from the upper portion of the center and are impressed or forced into the last form, thereby forming gripping means upon both sides of the lug 4, which rigidly secure the last form to the center.

By providing the projecting lug 4 and seating the same into the last, I am enabled to form the center of small diameter, preferably oval in cross-section. With this form of toe center, the complete form of the last is produced in the lathe, requiring but slight finishing and enables the last form to be centrally alined in the lathe. This latter feature is very important in producing accurate work.

Having described my invention, I claim:—

1. A last lathe center having means projecting centrally therefrom adapted to seat in an orifice formed in the last form, teeth projecting from said lathe center having an inclined surface adapted to engage against

the bottom of the last form, and teeth projecting from said lathe center adapted to engage into the toe portion of the last form oppositely disposed from said first named teeth, substantially as described.

2. A last form provided with an elongated orifice at the toe tip alined with the longitudinal axis, an elongated pin engaging into said orifice and having a serrated shoulder engaging the toe tip, and a heel clamp, substantially as described.

In testimony whereof, I have hereunto set my hand.

CHARLES P. MORTON.

Witnesses:
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