

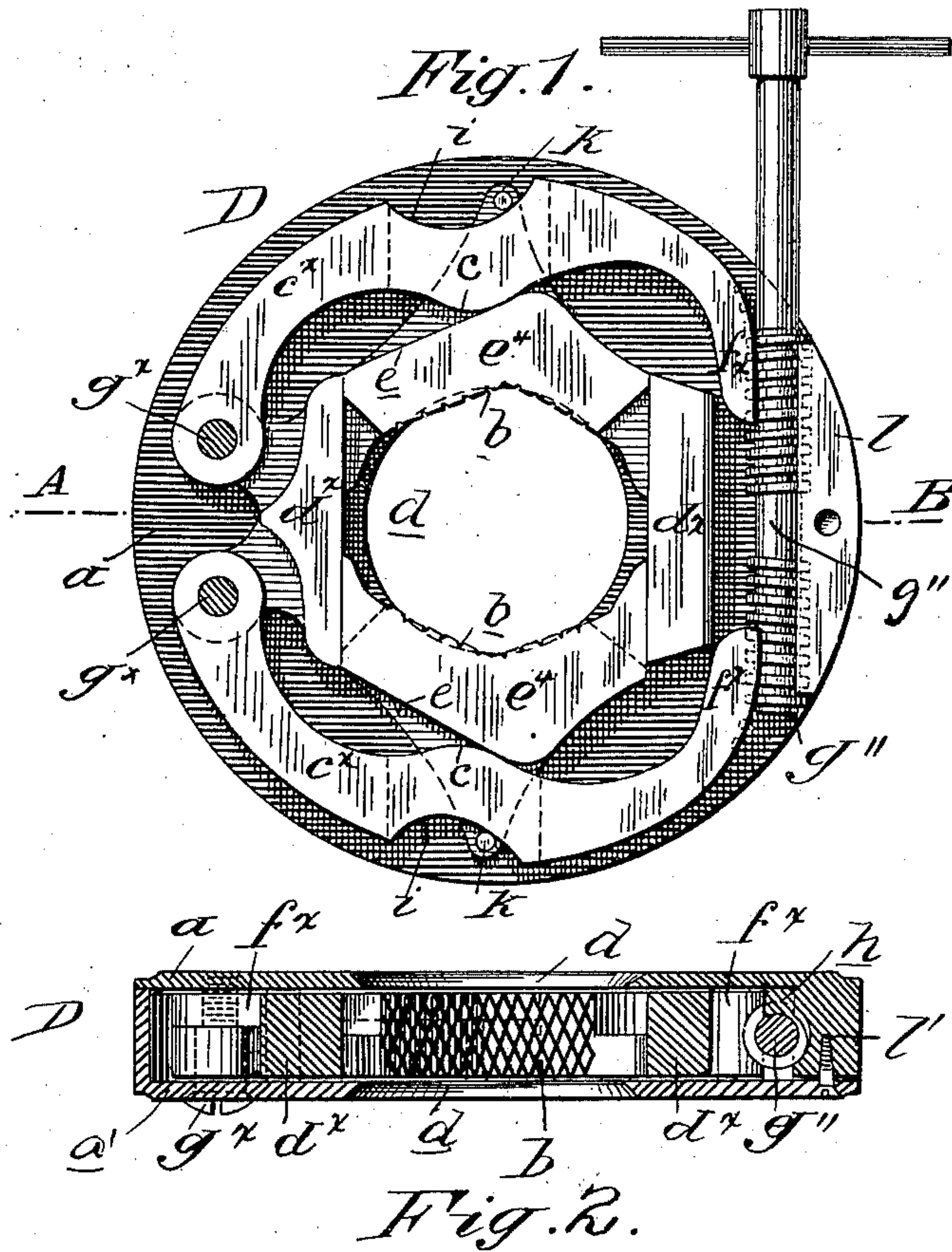
No. 685,933.

Patented Nov. 5, 1901.

S. NEUMANN.  
CLAMPING DEVICE FOR LATHES.

(Application filed Feb. 4, 1901.)

(No Model.)



Witnesses:  
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Att'y

# UNITED STATES PATENT OFFICE.

SAMUEL NEUMANN, OF STUTTGART, GERMANY.

## CLAMPING DEVICE FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 685,933, dated November 5, 1901.

Application filed February 4, 1901. Serial No. 45,963. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL NEUMANN, a subject of the German Emperor, and a resident of Stuttgart, Germany, have invented certain new and useful Improvements in Clamping Devices, of which the following is a specification.

This invention relates to improved clamping devices designed, primarily, for use in connection with lathes or similar machines, but adapted for use in numerous other relations where the employment of a device of this character may be deemed expedient.

Novel details in the construction and arrangement of the several parts of the clamp will be apparent from the detailed description hereinafter when read in connection with the accompanying drawings, forming part hereof, and the appended claim.

In the drawings a preferable embodiment of the invention is delineated for the purpose of illustration, and when referring to the same like reference characters designate corresponding parts in both views, whereof—

Figure 1 is an elevation of the clamp, its cover-plate being removed; and Fig. 2 is a sectional view on the line A B of Fig. 1, the cover-plate being shown in place.

D designates a circular relatively flat casing comprising a base-plate  $a$  and a cover-plate  $a'$ , both provided with alined centrally-arranged openings  $d$  for the passage of the article to be clamped. The plates are held together at a suitable distance apart through the medium of the lateral enlargement  $e$  on the base, engaged by a binding-screw  $e'$  passing through the cover.

$d^x d^x$  are oppositely-disposed guides secured within the casing and between which the slidable jaws  $e^4 e^4$  work. These jaws each have inner serrated or roughened biting edges  $b$ , adapted to directly engage the article to be clamped, and an inclined rear edge, for a purpose to be hereinafter pointed out.

As an efficient means for operating the jaws levers  $c^x c^x$  are provided, the same being pivoted in the casing at  $g^x g^x$  at one end and having toothed edges  $f^x f^x$  at their other ends. A stem  $g''$  is supported intermediate of its ends in a bearing  $h$  on the enlargement  $c$ , said stem having reversely-arranged screw-threads thereon arranged to engage the toothed edges of the levers to force them toward or from each other, and thereby, through the medium of the rounded portions  $c' c'$  riding upon the inclined edges  $e e$  of the jaws, correspondingly operate the sliding jaws. It will thus be seen that the levers have a cam action relative to the clamping-jaws. Excessive outward movement is prevented by the pins  $k k$ , adjacent the recesses  $i i$  of said levers.

It is to be understood that minor changes and alterations in the special construction herein described may be made without in the least departing from the nature and spirit of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

A clamping device of the character specified, comprising a casing having an opening for the article to be clamped, clamping-jaws slidable in the casing, and means for operating the jaws comprising oppositely-arranged members  $c^x, c^x$ , operatively associated with the jaws so as to have a cam action relative thereto, and means in engagement with said members  $c^x, c^x$ , for forcing the same toward or from the jaws, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

SAMUEL NEUMANN.

Witnesses:

C. SCHEL,  
GREGORY PHELAN.