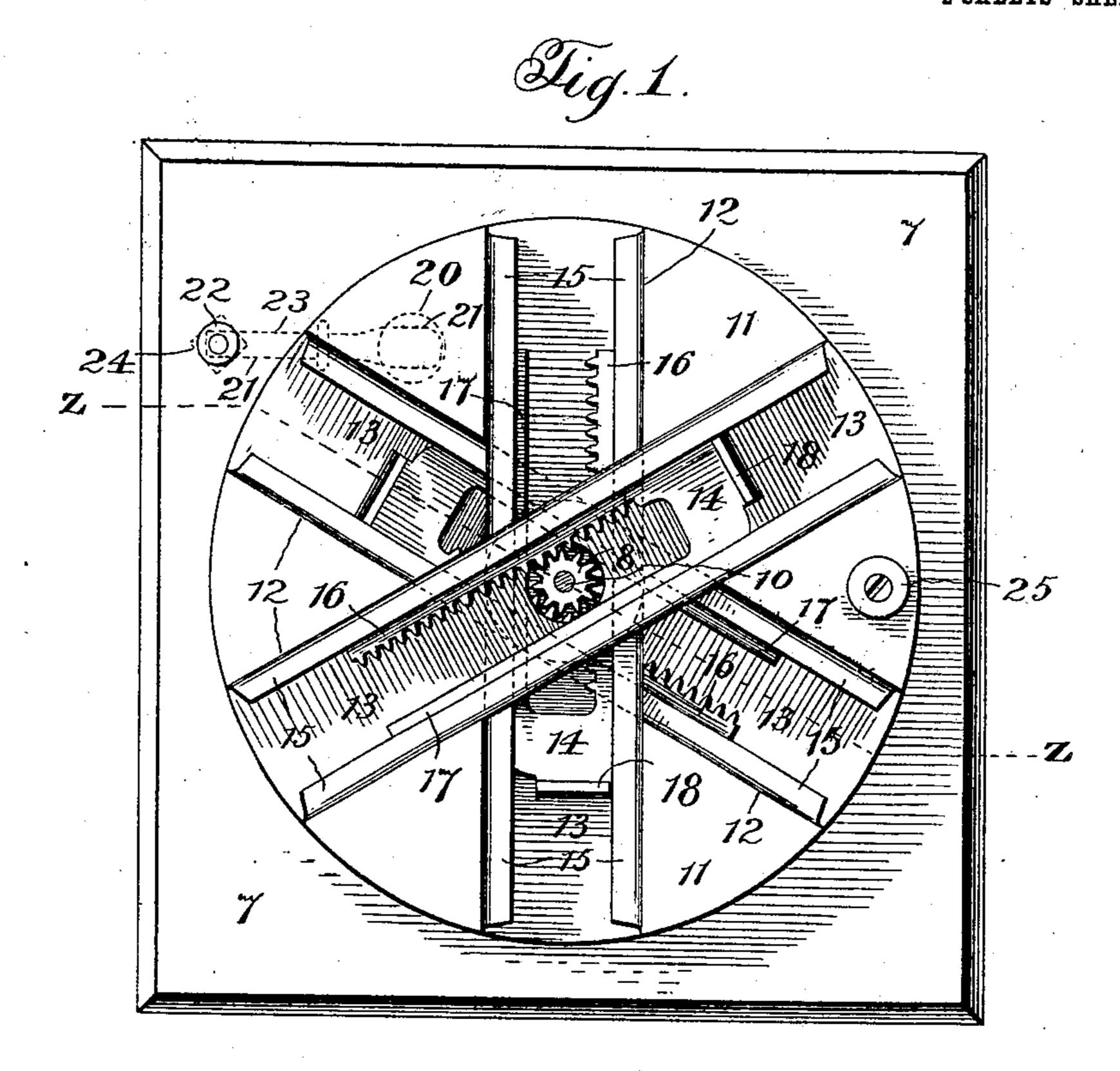
J. SINNING & P. A. DE LANGE.

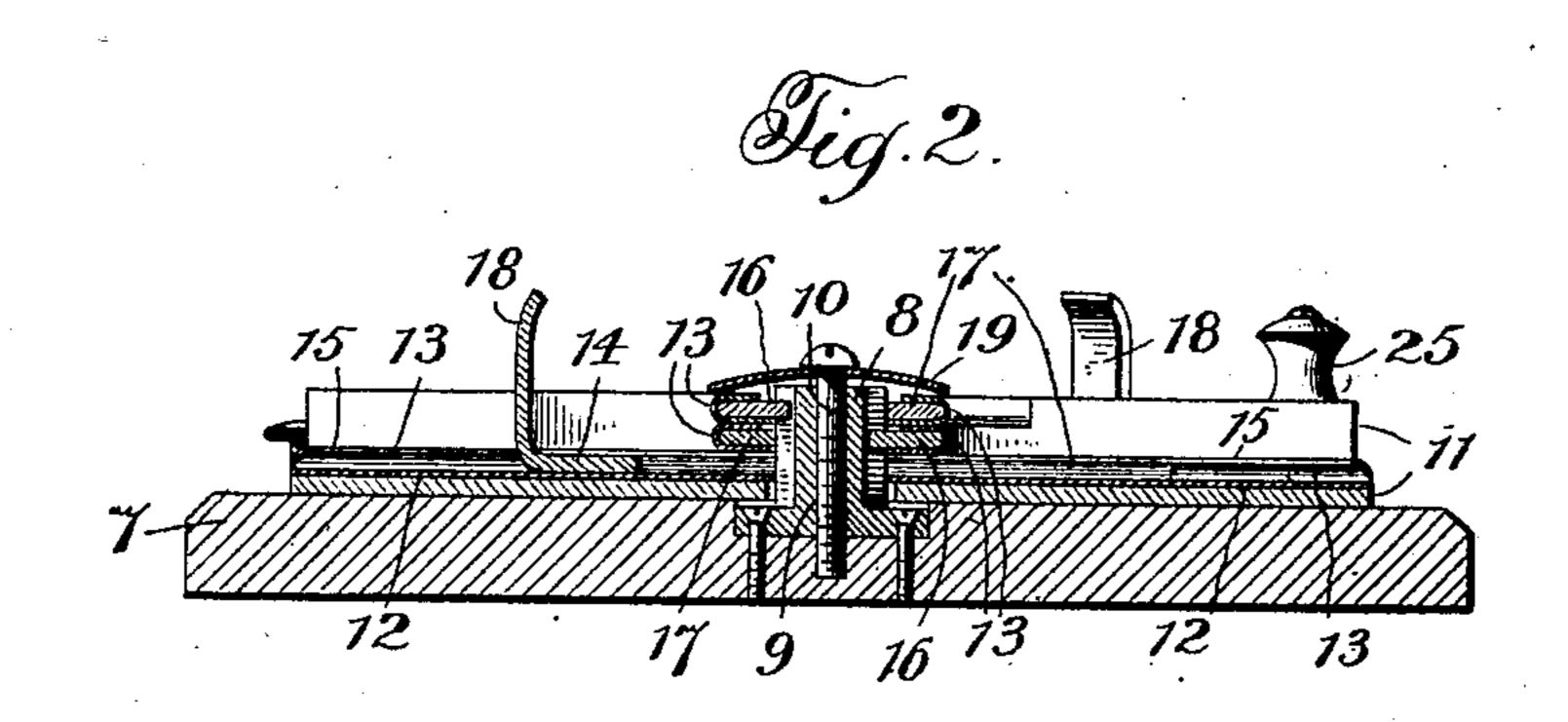
CLAMP.

APPLICATION FILED JULY 18, 1908.

925,603.

Patented June 22, 1909.
2 SHEETS—SHEET.1.





Witnesses: Jaslosfutchinson: Thosportrail. Peter A. de Lange. John Sinning, By Jul h. Morris, Ottorney:

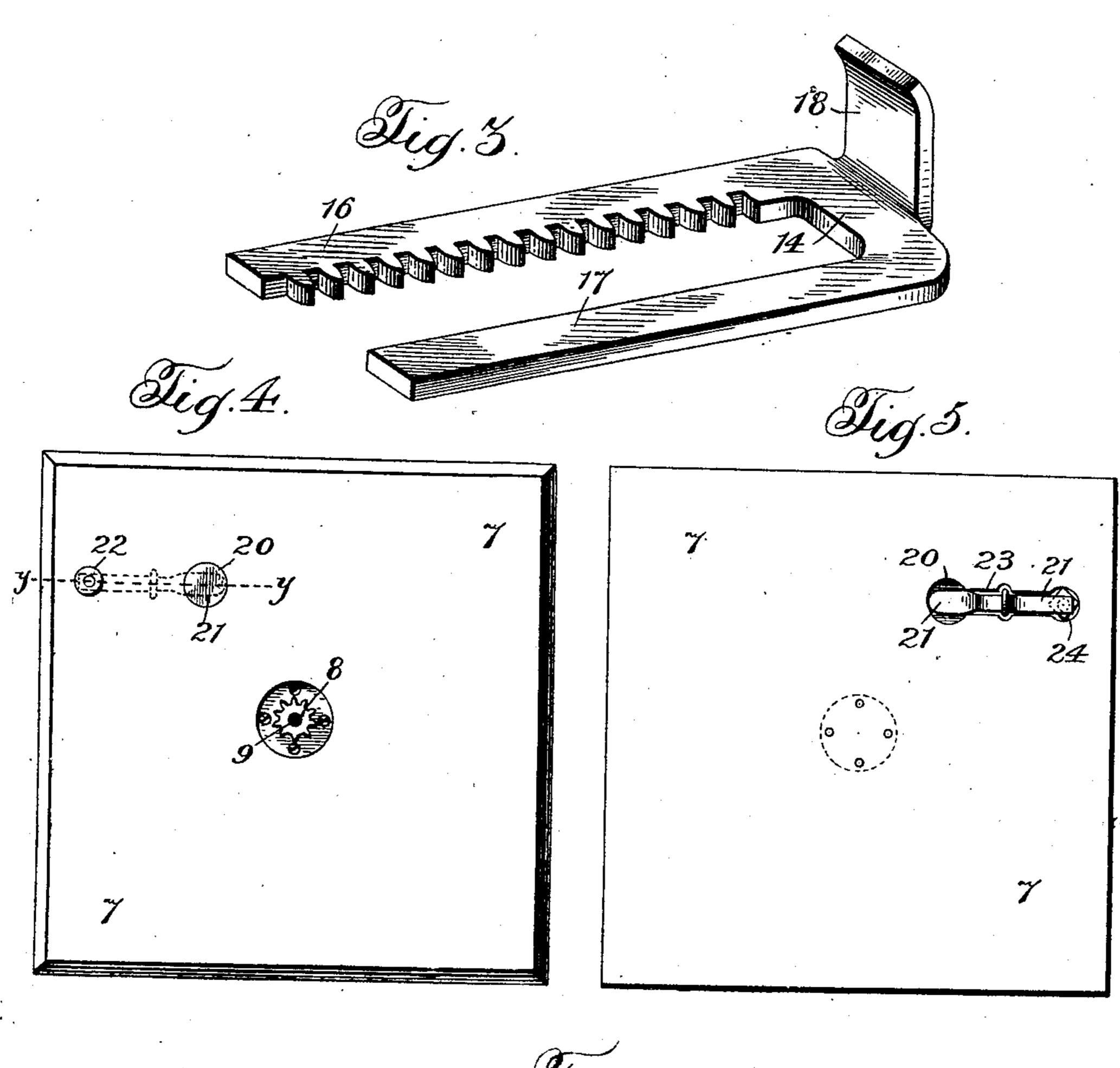
J. SINNING & P. A. DE LANGE, CLAMP.

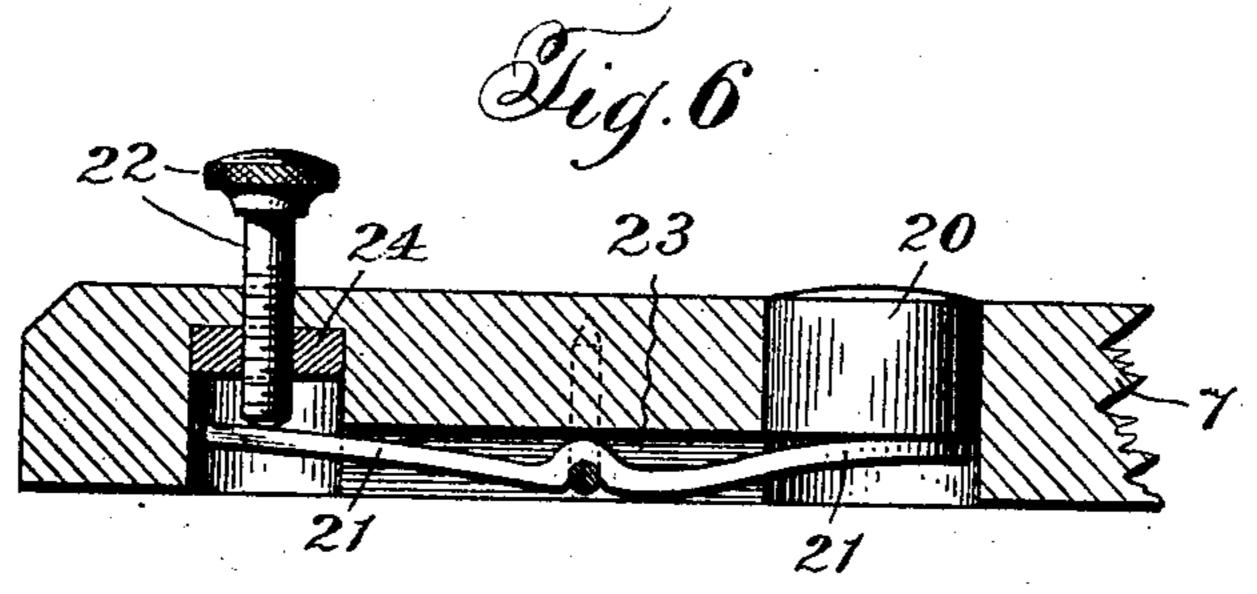
APPLICATION FILED JULY 18, 1908.

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2 SHEETS—SHEET 2.





Witnesses! Jaslo Spetchinson: Thos Reach. Peter a. de Lauge Jolen Sinsing By Joel L. Morris , Ottorney:

UNITED STATES PATENT OFFICE.

JOHN SINNING AND PETER A. DE LANGE, OF LENNOX, SOUTH DAKOTA.

CLAMP.

No. 925,603.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed July 18, 1908. Serial No. 444,303.

To all whom it may concern:

Be it known that we, John Sinning and 5 Lincoln and State of South Dakota, have invented certain new and useful Improvements in Clamps; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable 10 others skilled in the art to which it appertains to make and use the same.

This invention is designed to afford means whereby mortars and other receptacles or objects may be easily and quickly clamped 15 for being securely held in place during use and whereby they may be just as readily released when desired, it being an object to provide a device of this character whose construction is simple and whose operation is 20 effective and entails little exertion.

When read in connection with the description herein, the details of construction and arrangement of parts contemplated by this invention will be apparent from the accom-25 panying drawings, forming part hereof, wherein a preferable embodiment of the invention is disclosed, for purpose of illustration.

Like reference-characters refer to corre-30 sponding parts in the several views of the drawings, of which—

Figure 1 is a plan view; Fig. 2 is a sectional view on the line z—z, Fig. 1; Fig. 3 is a view of one of the clamp-slides; Fig. 4 is a plan 35 view of the fixed member of the device; Fig. 5 is a bottom view thereof; and Fig. 6 is a sectional view on the line y-y, Fig. 4.

Having more particular reference to the drawings, 7 designates a supporting member, 40 which may be secured to, or be a part of, a table, counter, or the like. Attached to and projecting upwardly from this support is a fixed pinion 8, having an aperture 9 therethrough for passage of a pivot 10, the pivot 45 extending into the support.

ber 11, having pinion 8 as its pivot. A plurality of grooves 12 are formed in member 11. The bottom surface of every groove lies 50 in a different plane from that of the others, and the grooves are disposed in the lines of different diameters of a circle of which pinion 8 would be the center. Located in each groove is a guideway 13, the guideways being 55 independent of each other, crossing one

above another at the pinion, and having alined apertures to accommodate the pinion Peter A. de Lange, citizens of the United | and permit it to project through all of them. States, residing at Lennox, in the county of | A clamp-slide 14 is positioned and longitudinally movable in each guideway, the slide 60 being held therein by an overlapping flange 15 on each side. The slide is formed with parallel arms 16 and 17 of a distance apart to permit disposition one on each side of the pinion, and one of the arms, for instance 16, 65 is toothed and arranged to mesh with the pinion. The toothed arms of the slides are so correlated that, when member 11 is rotated, all of them will move either toward or from the pinion at the same time and will si- 70 multaneously and mutually cooperate to clamp or release an object. At the outer end of each slide is a clamp-projection 18. Member 11 is held down in place by a head 19 on pivot 10, the head overlapping the top guide- 75 way.

> A movable friction element 20 is seated in an aperture or recess in support 7 beneath, and arranged for frictional engagement with, the bottom of member 11, whereby said 80 member may be held in any desired position of rotation. Element 20 engages an arm 21 at or near an end thereof, the arm being pivoted intermediate its ends, and a thumbscrew 22 engages the arm at or near its other 85 end. Arm 21 is preferably disposed in a groove 23 formed in the bottom of support 7. Thumb-screw 22 is held by a threaded sleeve 24 which is fixed in or to the support, and its head projects above the support and outside 90 of the limits of member 11, where it is accessible and where it does not interfere with the rotation of that member.

> A knob or other suitable projection 25 is secured to member 11 where it can be con- 95 veniently grasped by the hand for rotating the member.

When it is desired to clamp or release an object which has been placed on member 11 between the projections 18, member 11 is 100 Disposed on support 7 is a rotatable mem- | rotated in a proper direction, when the slides in engagement with the fixed pinion will be moved to cause the projections to move inwardly against or outwardly from the object, as the case may be. By operation of thumb- 105 screw 22 friction element 19 is caused to engage member 11 to prevent its rotation and release of the clamp or to disengage it to permit its rotation, as desired.

Having thus described our invention, what 110

we claim as new, and desire to secure by Let-

ters Patent, is—

1. A clamp comprising a rotatable carrying member, a plurality of guideways there-5 on, a fixed pinion projecting through said guideways, and clamp-slides in said guideways in mesh with said pinion, said slides being arranged to all be moved at the same time inwardly or outwardly upon rotation of

10 said member.

2. A clamp comprising a rotatable carrying member, a plurality of guideways thereon, a fixed pinion projecting through said guideways, clamp-slides in said guideways in 15 mesh with said pinion, said slides being arranged to all be moved at the same time inwardly or outwardly upon rotation of said

member, and means whereby rotation of said member is controlled.

3. A clamp comprising a supporting mem- 20 ber, a fixed pinion thereon, a rotatable member having independent guideways through which said pinion projects, and clamp-slides in said guideways in mesh with said pinion and arranged to clamp or release an object 25 upon rotation of said rotatable member.

In testimony whereof we affix our signa-

tures, in the presence of two witnesses.

JOHN SINNING. PETER A. DE LANGE.

Witnesses:

M. N. CROWLEY, J. P. HEURICH.