

No. 619,233.

Patented Feb. 7, 1899.

F. SCHRAUDNER.

CASK.

(Application filed Sept. 6, 1898.)

(No Model.)

2 Sheets—Sheet 1.

Fig. II.

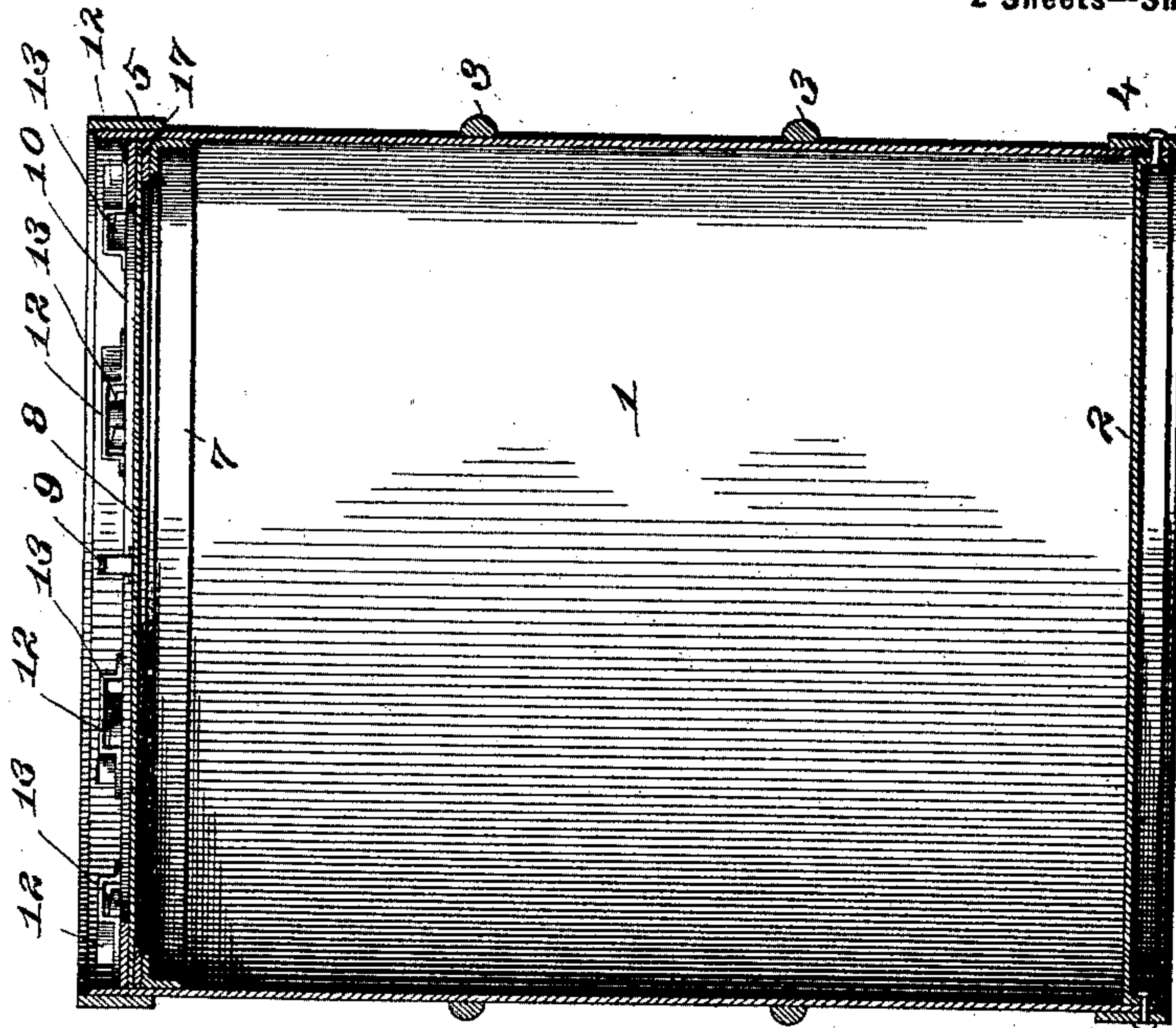
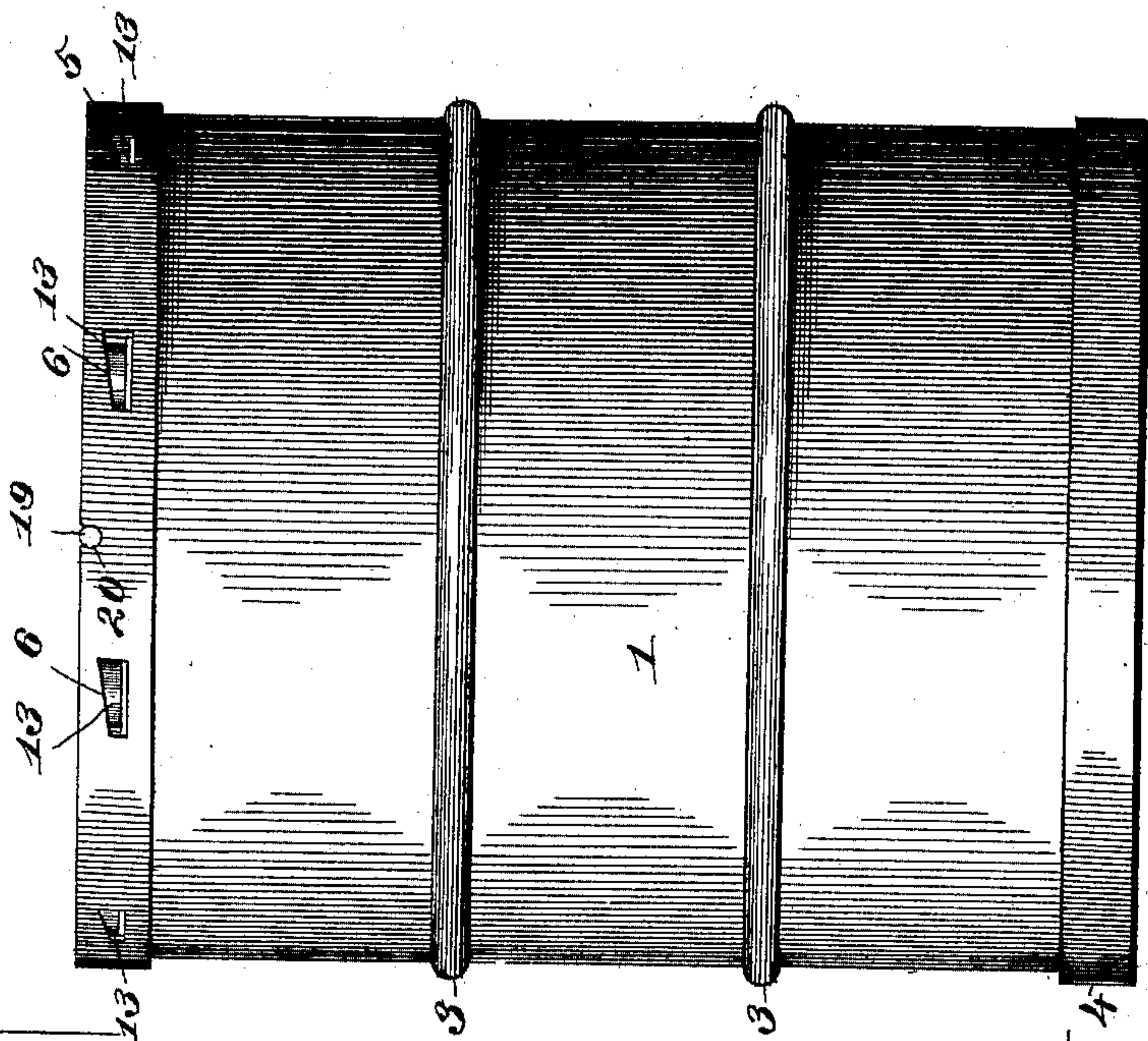


Fig. I.



Witnesses —

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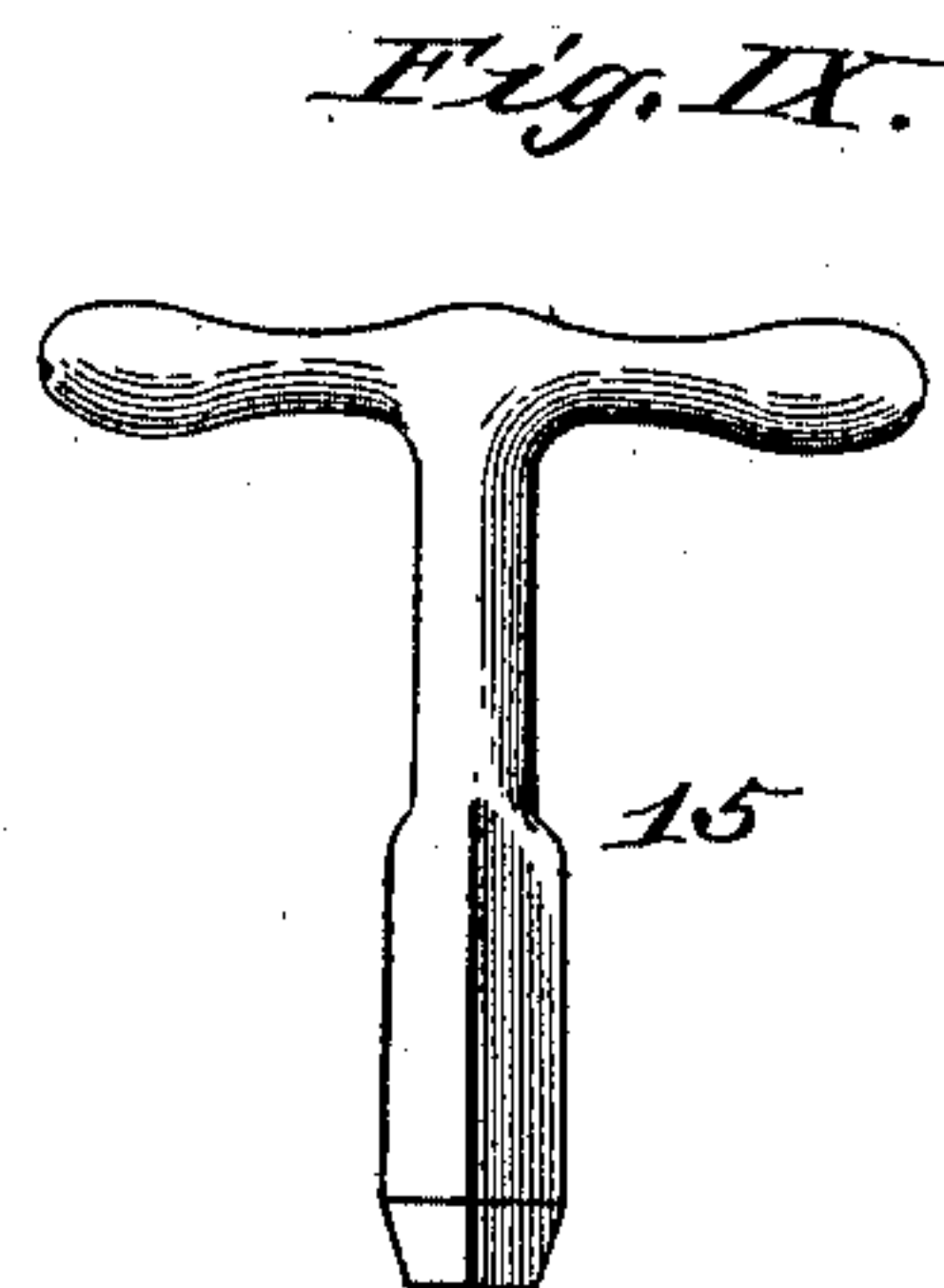
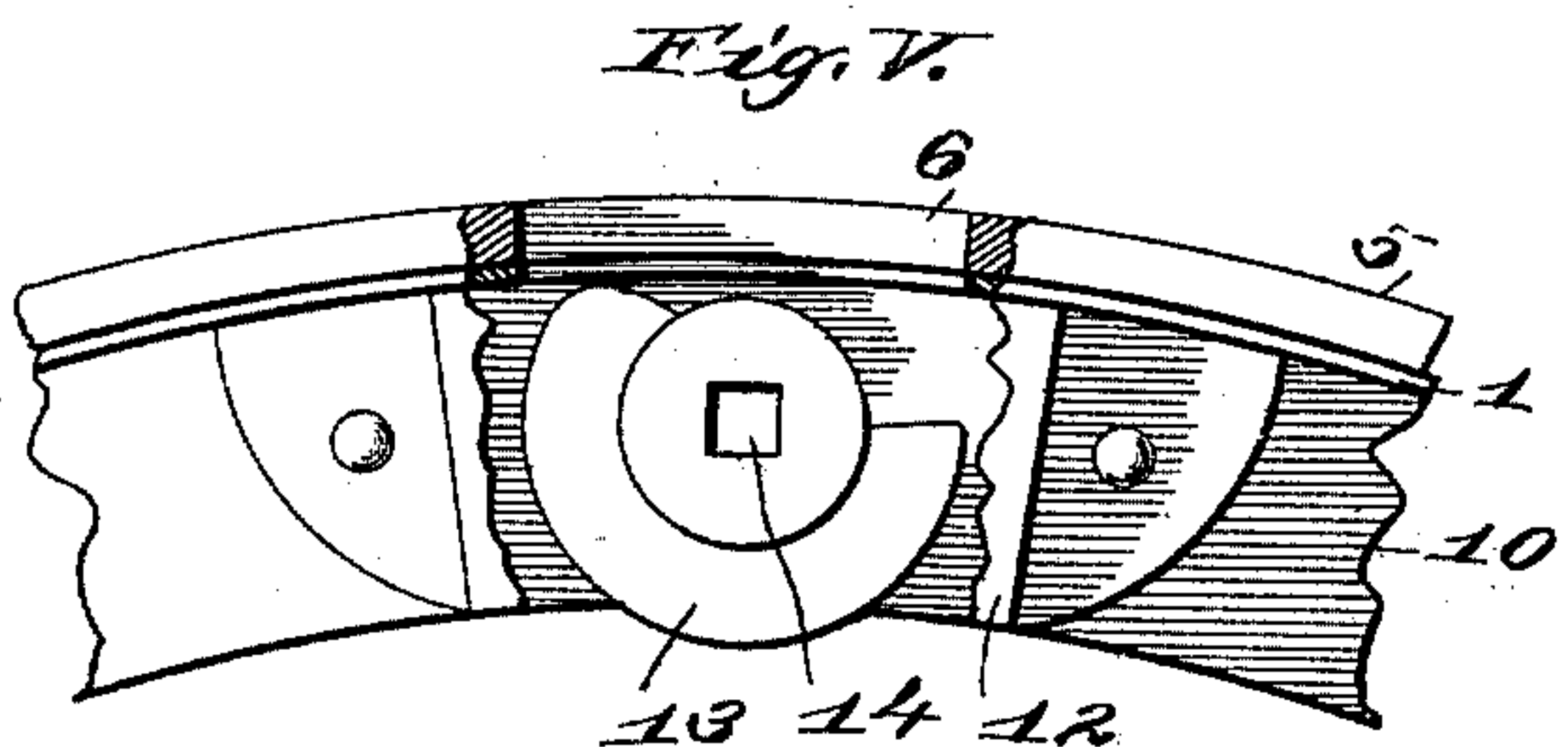
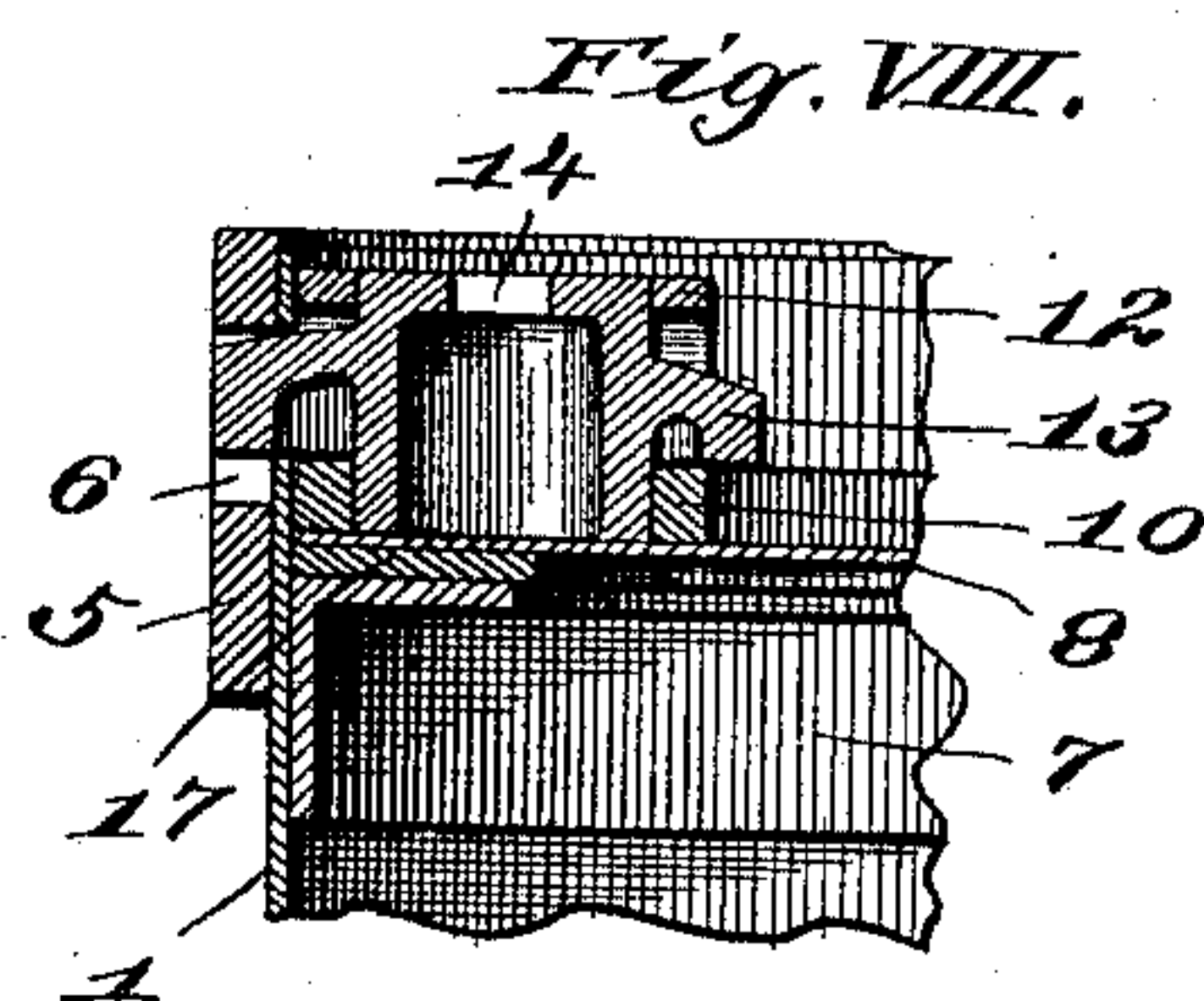
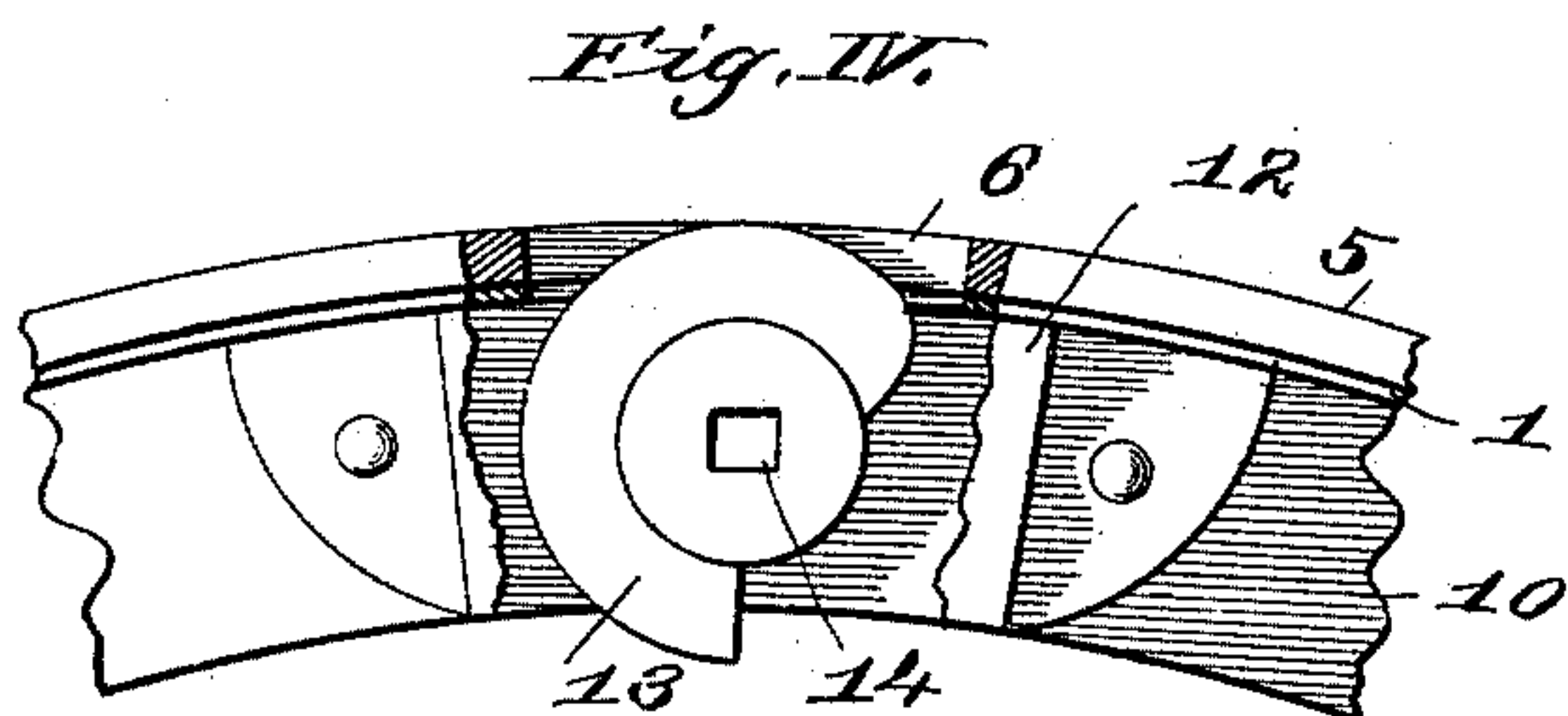
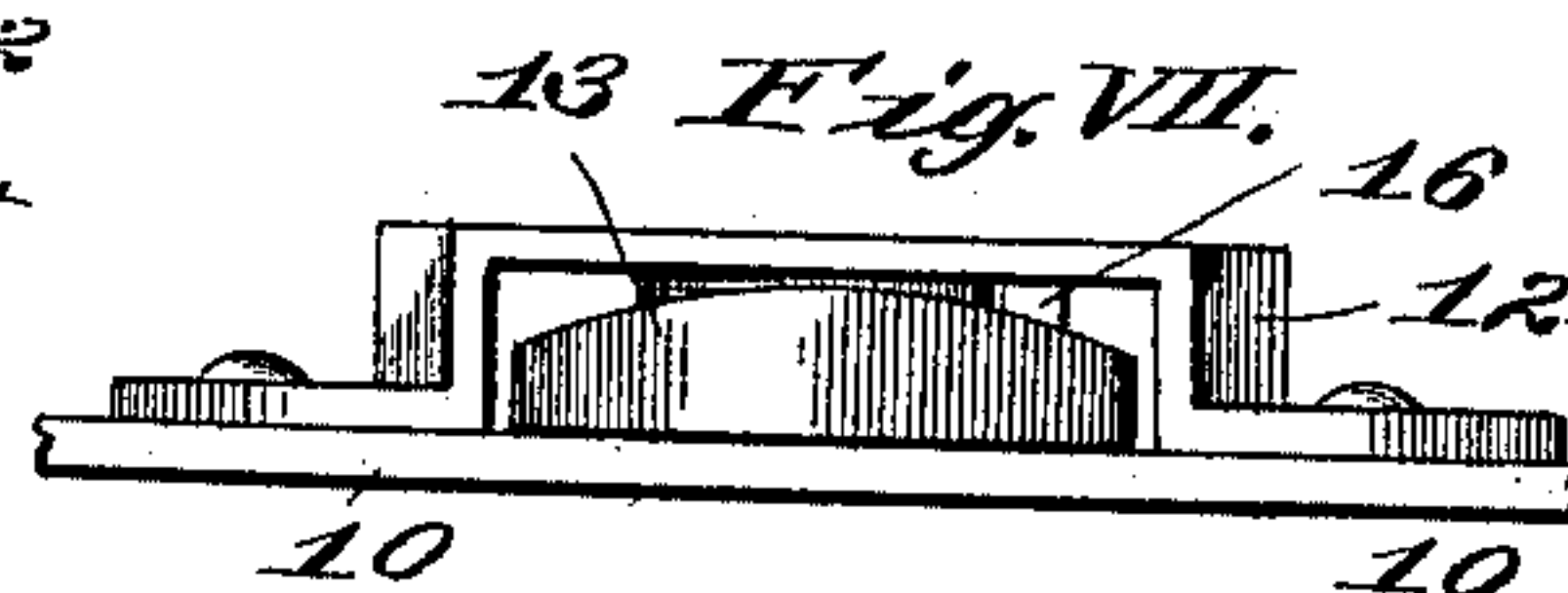
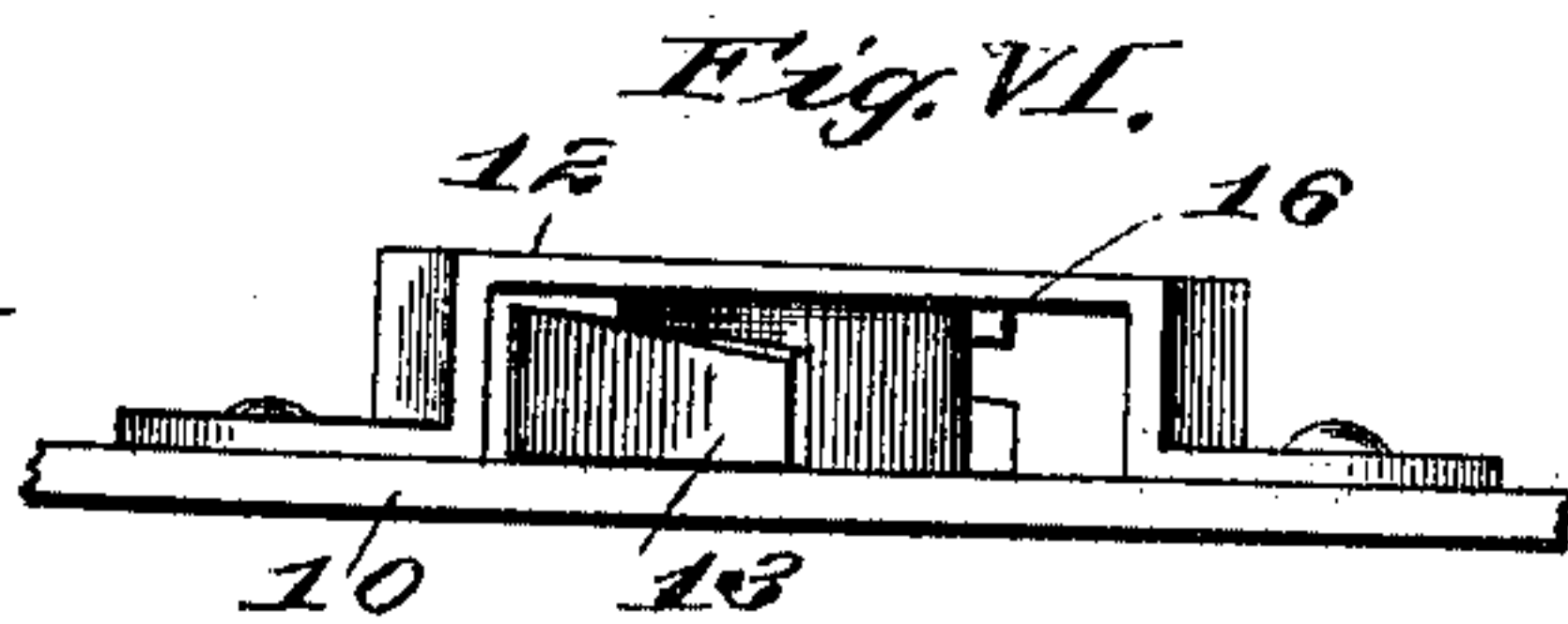
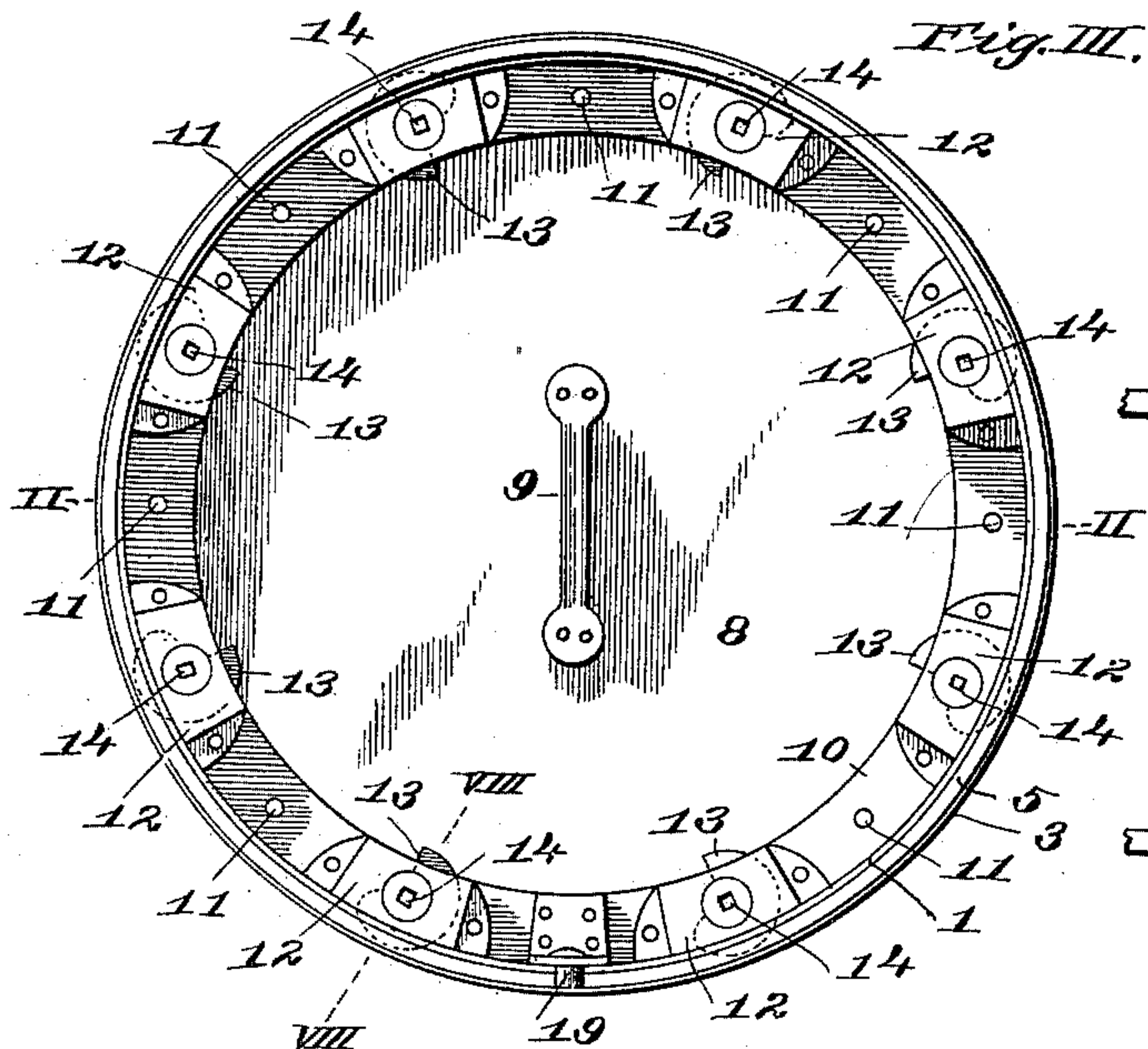
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2 Sheets—Sheet 2.



Witnesses_

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UNITED STATES PATENT OFFICE.

FREDERICK SCHRAUDNER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE
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CASK.

SPECIFICATION forming part of Letters Patent No. 619,233, dated February 7, 1899.

Application filed September 6, 1898. Serial No. 690,312. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK SCHRAUDNER, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Casks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a cask provided with a removable cover secured in position in the top end of the cask by rotatable cams adapted to engage in wedge-shaped apertures in the body or in the top hoop of the cask.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a view showing my improved cask in elevation. Fig. II is a longitudinal sectional view of the cask, taken on line II II, Fig. III. Fig. III is a top view of the cask. Fig. IV is an enlarged detail view of a fragment of the rim of the cask-cover, cask-rim, top hoop, and one of the fastener-cams, said cam being shown in locked position. Fig. V is a similar view to Fig. IV, with the cam shown in unlocked position. Fig. VI is an edge view of one of the fastener-cams and its keeper, looking at such parts in an outwardly direction, the cam being shown in the position seen in Fig. IV. Fig. VII is a similar view to Fig. VI, with the cam shown in the position shown in Fig. V. Fig. VIII is an enlarged detail sectional view taken on line VIII VIII, Fig. III, through the rim and top hoop of the cask, the cover, and one of the fastener-cams. Fig. IX is a side view of a key used to turn the fastener-cams into or out of locked position.

1 designates the body of the cask, having a bottom 2, centrally-located hoops 3, a bottom hoop 4, and top hoop 5. The top hoop 5 is provided with wedge-shaped circumferential segmental apertures 6, that also extend through the cask-body, as is clearly shown in Fig. VIII.

7 designates a ring, angle-shaped in cross-section, that is secured within the cask-body, near the upper end thereof. The inwardly-projecting flange of this angle-shaped ring

provides a shoulder on which the cask-cover is seated when placed in position.

8 designates the cask-cover, which is provided with a handle 9. The cover 8 is preferably of sheet metal and has a ring 10 secured to it at its edge by any suitable means, such as rivets 11. (See Fig. III.)

12 designates keepers secured to the ring 10 equidistant apart. These keepers receive fastening segmental cams 13, that are seated in the ring 10 and in apertures in said keepers. Each cam 13 is provided with an opening 14, that is adapted to receive the key 15, (shown in Fig. IX,) through means of which the cams may be turned into desired positions. Each cam 13 has its upper face inclined, as is clearly shown in Figs. VI and VII, and the cams are designed to be turned by the key 15 into the wedge-shaped apertures 6 in the body of the cask and the top hoop 5, by which action the cams cause the cover 8 to be carried inwardly toward the angular ring 7 and tightly fit the cover into the cask, which is accomplished when the parts are in the position illustrated in Figs. I, II, III, IV, VI, and VIII. When the cover is to be removed, the cams are turned into the position shown in Figs. V and VII to bring their uncompleted rims outwardly, and in which position each cam comes in contact with a lug 16 (see Fig. VII) and is prevented from turning farther in that direction, thereby permitting of all of the cams being turned the required distance to completely release them from engagement in the apertures 6 without the exercise of care in turning them to the proper position. When the cams have been rotated and disengaged from the cask-body and top hoop 5 and turned into contact with the lugs 16, they are held by said lugs from displacement during the time that the cover may be removed from the cask, and they therefore cannot be accidentally turned to throw them out of their position in which they permit of the cover being inserted into the cask.

17 is a gasket seated between the cover 8 and the angular ring 7, which gasket is preferably permanently secured to the cover 8.

19 is a prong secured to the ring 10 and pro-

jecting outwardly. This prong is adapted to engage in a recess 20 in the outer edge of the top hoop 5 for the purpose of indicating and acquiring the proper seating of the cover in position, so that the fastener-cams will always be brought into their proper positions.

I claim as my invention—

1. In a cask, the combination of the cask-body, a hoop provided with apertures and secured to said body, the cover, and cams carried by said cover arranged to be turned into the apertures in said hoop, substantially as described.

2. In a cask, the combination of a cask-body, a hoop provided with apertures and secured to said body, a ring angular-shaped in

cross-section mounted within said cask-body, a cover adapted to be seated on said ring, and cams carried by said cover arranged to be turned into the apertures in said hoop, substantially as described.

3. In a cask, the combination of a cask-body having apertures therein, a cover, keepers mounted on said cover, cams seated in said keepers arranged to be turned into said apertures, and lugs on said keepers arranged to limit the movement of said cams, substantially as described.

FREDERICK SCHRAUDNER.

In presence of—

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