

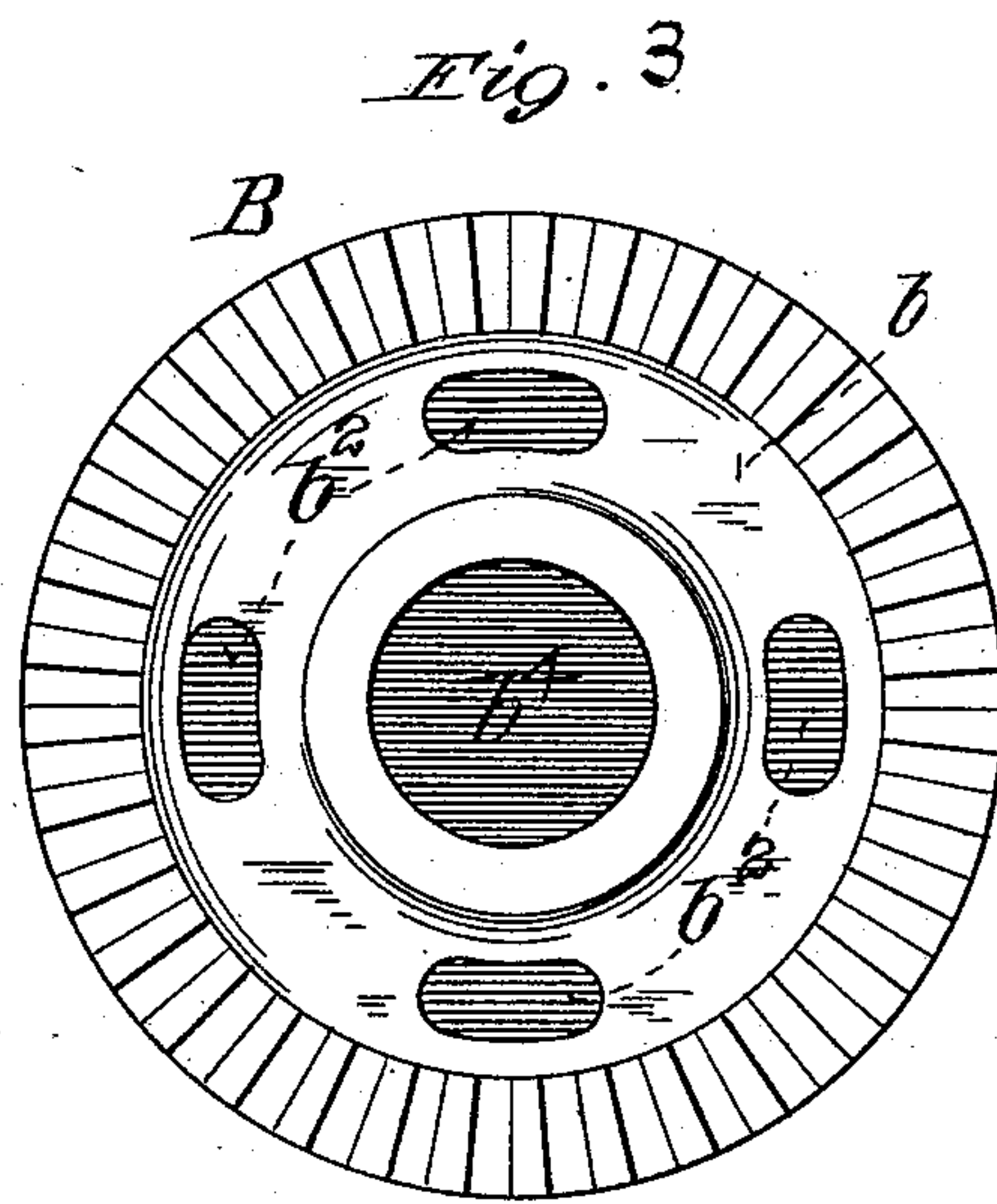
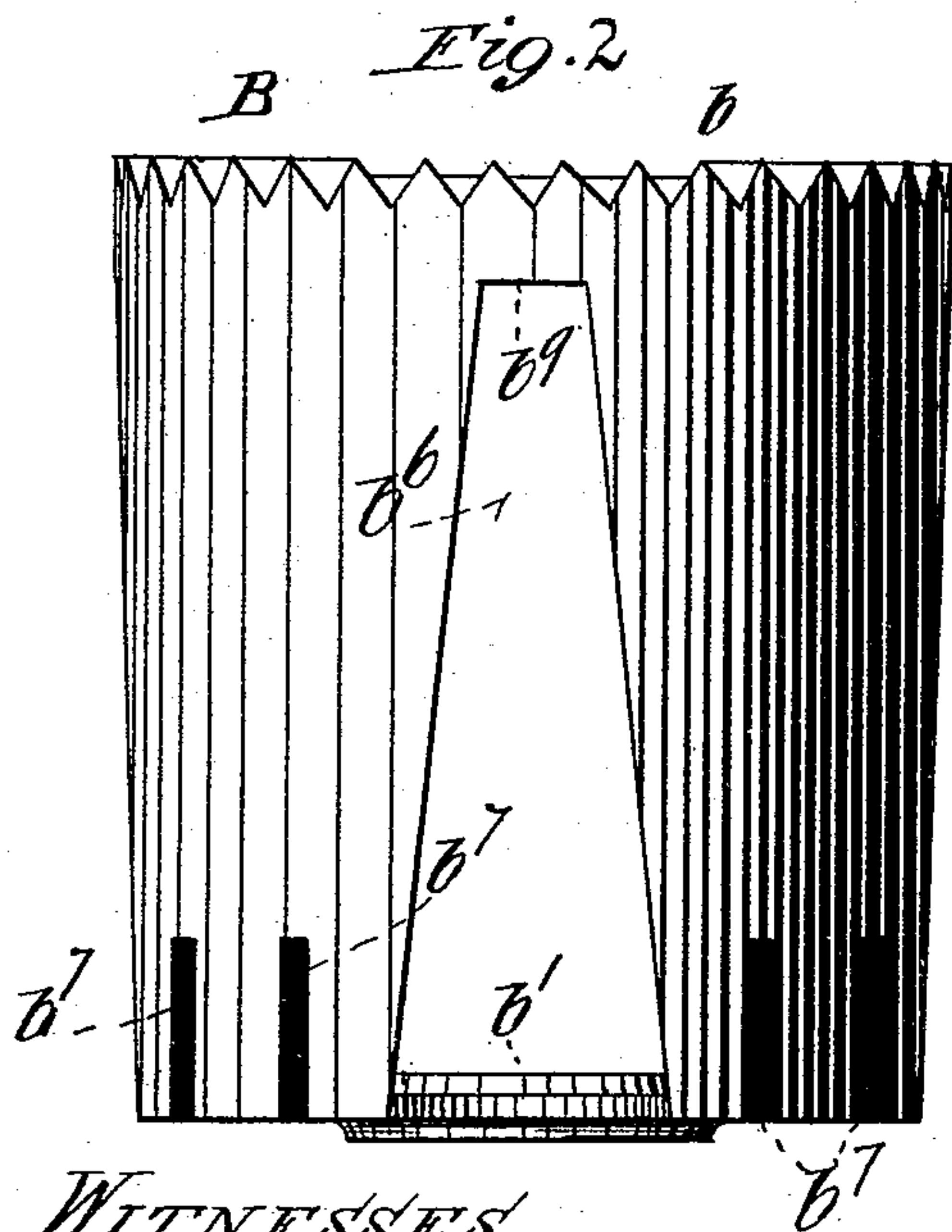
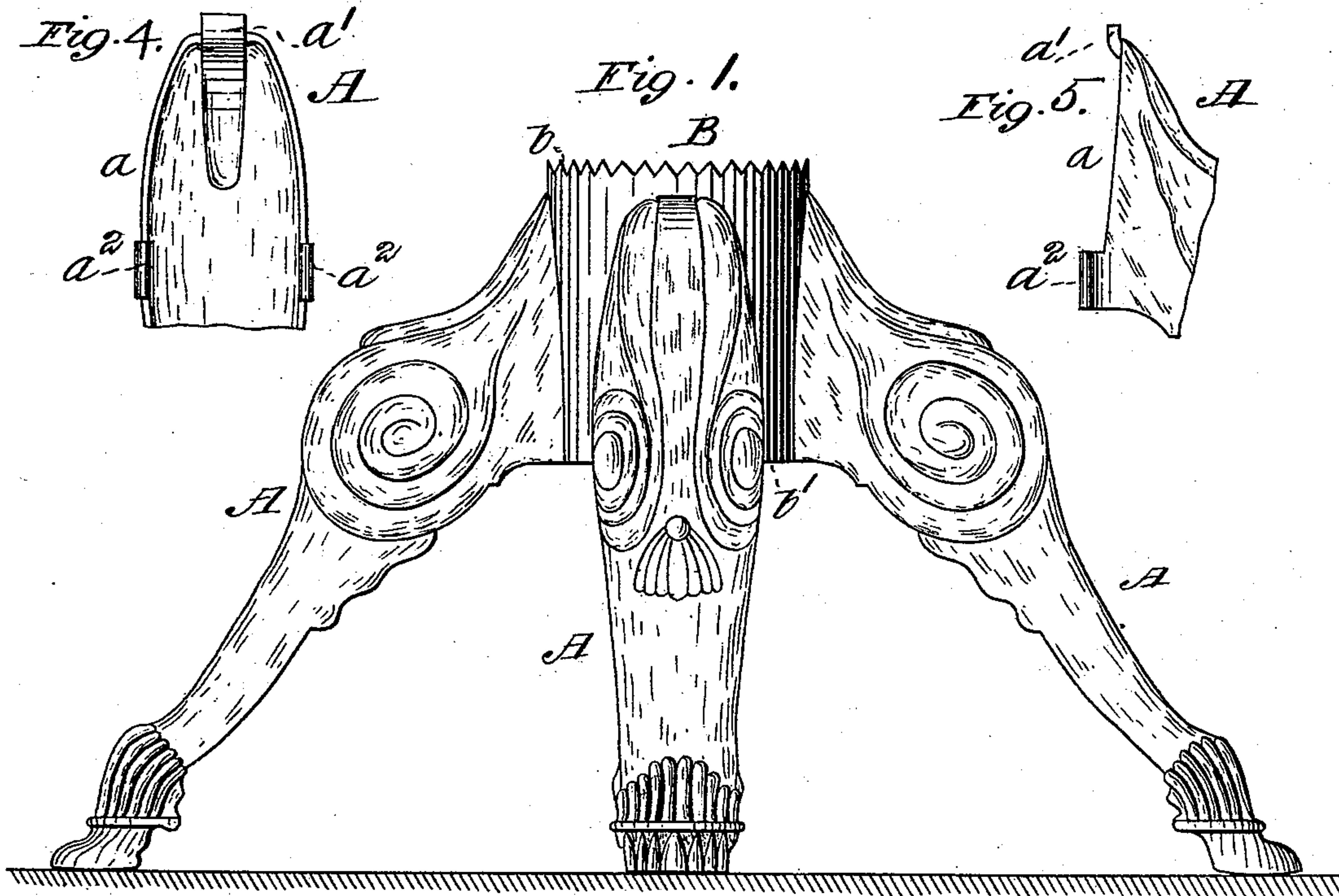
(No Model.)

2 Sheets—Sheet 1.

E. E. KOKEN.
CHAIR BASE.

No. 492,554.

Patented Feb. 28, 1893.



WITNESSES
Edward W. Furrell
A. Bonville

INVENTOR
Ernest E. Koken
by C. Moody
per atty

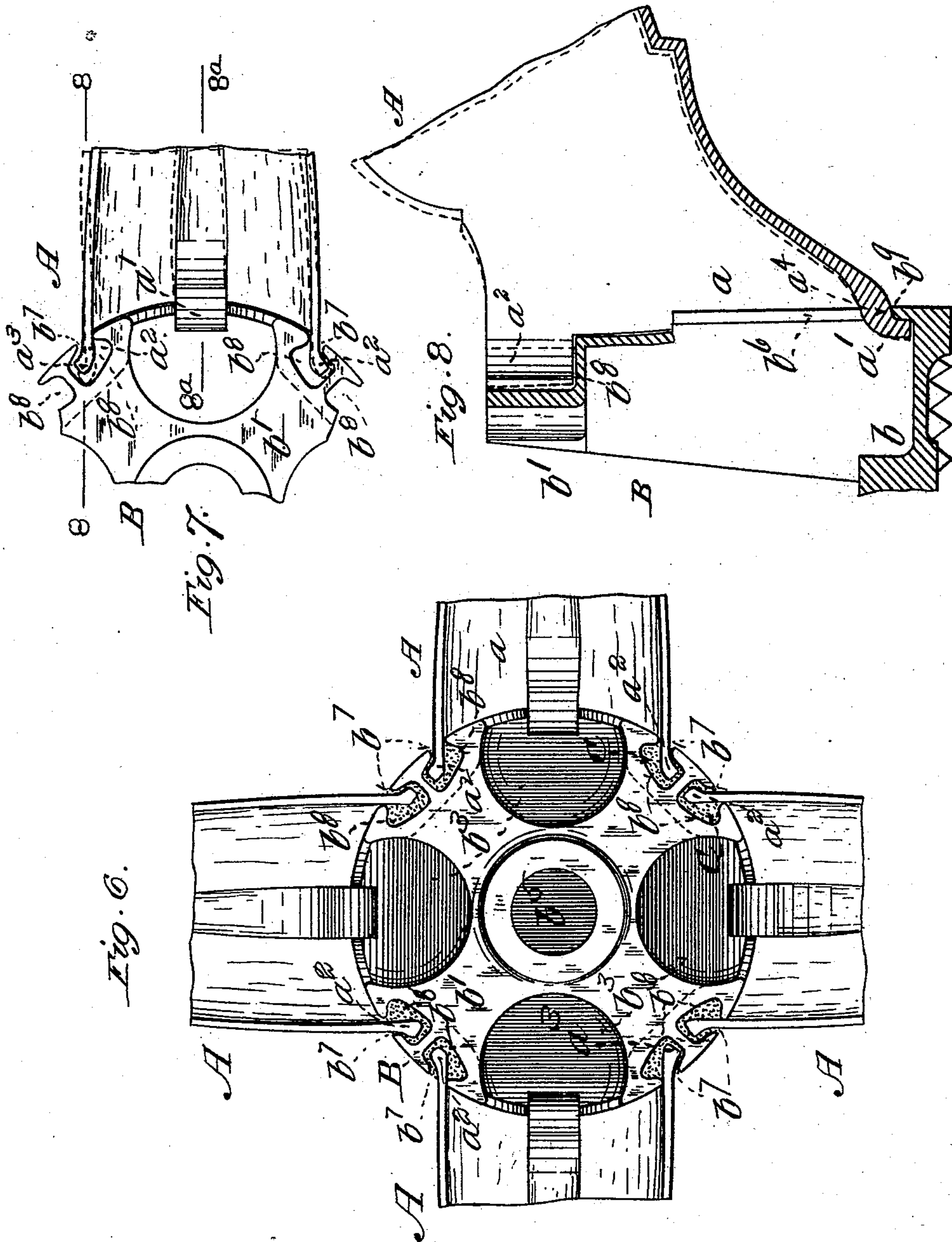
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UNITED STATES PATENT OFFICE.

ERNEST E. KOKEN, OF ST. LOUIS, MISSOURI.

CHAIR-BASE.

SPECIFICATION forming part of Letters Patent No. 492,554, dated February 28, 1893.

Application filed June 26, 1892. Serial No. 438,007. (No model.)

To all whom it may concern:

Be it known that I, ERNEST E. KOKEN, of St. Louis, Missouri, have made a new and useful Improvement in Chair-Bases, of which the following is a full, clear, and exact description.

A leading feature of the present improvement is the means whereby the chair-legs are readily, economically, and securely attached to the base-top.

Another feature is the special construction of the base-top whereby that part can be easily and strongly made, all substantially as is hereinafter set forth and claimed, aided by the annexed drawings, making part of this specification and exhibiting the most desirable mode of carrying out the improvement, and in which—

Figure 1 is a side elevation of a chair-base constructed according to the principle of my improvement: Fig. 2 a side elevation of the base-top: Fig. 3 a plan of the base-top: Fig. 4 an elevation of the upper portion of one of the legs, the view being toward that side of the leg which meets the base-top when the legs and top are put together: Fig. 5 a view of the same part of the leg, at right angles to that of Fig. 4: Fig. 6 a view, from beneath, of the central portion of the base; that is, of the chair-top and the adjoining portions of the legs, the parts being united as when the construction is completed: Fig. 7 a view similar to that of Fig. 6, but showing only one of the legs, and the adjoining portion of the top and the leg and top interlocked but not yet fastened: and Fig. 8 a vertical section on the line 8—8 and 8a—8a of Fig. 7.

The views are not all upon the same scale.

The same letters of reference denote the same parts.

The improvement under consideration is adaptable to various forms of chairs and analogous structures, and especially to a style, such as a barber's chair, requiring or employing a strong, massive base, and which rests evenly upon its support. Such a base can be advantageously made of cast metal, but to enable the base to be both strong and light, and readily constructed, as well as desirably shaped, it needs to be of a composite nature, and in order that the parts of the base may be properly combined, and at the same time without

necessitating a costly fitting of the parts, is an aim of the present improvement.

A, A, A, represent the legs of a chair-base such as under consideration. They may be of any suitable design consistent with the nature of the improvement.

B represents the part to which the legs are united, and which in effect is the top of the base. In its general form it resembles a drum and it hereinafter will be so styled. It is essentially a hollow cylinder tapering slightly in a downward direction, its heads, b , b' , perforated at b^2 , b^3 , respectively for a purpose presently mentioned, and also perforated centrally, at b^4 , b^5 , to receive the chair-spindle (not shown), and cut away in its side substantially as shown at b^6 , b^6 , b^6 , b^6 , where the legs are respectively attached, and also slit, at b^7 , b^7 , at each side of each opening b^6 , to provide for the attachment of the legs. The drum, opposite each slit b^7 , is also shaped to form, or is provided with a recess, b^8 . Access is had to the recess not only through the slit but also from the bottom of the drum, through the head, b' , as shown substantially in Figs. 6, 7, and 8.

Each leg, A, at its upper end, a , suitably fits the exterior of the drum, and as in the present instance the drum is circular the leg at its upper end is correspondingly curved to fit it. The leg at its upper end is also provided with three lugs, one, a' , at or toward its top extending outward and upward, and two others, a^2 , a^2 , at or toward the bottom of the leg-portions a , extending outward and preferably enlarged at a^3 , substantially as shown.

The parts of the chair base are united in the following manner: the drum is inverted and placed as represented in Figs. 6, 7, and 8; the legs are each then applied to the drum by entering the lug a' , through the opening b^6 , and allowing the shoulder a^4 , of the leg to come to a bearing upon the drum at the end b^9 of the opening b^6 , with the lug a' , upon the inner side of the shell of the drum as shown more distinctly in Fig. 8, and inserting the lugs, a^2 , a^2 , in the recesses, b^8 , b^8 , respectively. The recesses and lugs are of suitable relative size and shape to enable the leg, after the lugs a^2 , a^2 , have entered the recesses, to be turned upon the bearing, b^9 , to a limited ex-

tent, as indicated by the two positions of the
 leg shown in the full and broken lines in Fig.
 8. The adjustment of the legs is then, in any
 suitable manner, completed by turning the
 5 legs in the manner described until their feet
 are in the same plane, and then locking the legs
 in their adjusted position, which is accom-
 plished by pouring metal, of suitable nature,
 into the recesses, b^8 , until the spaces around
 10 the leg-lugs are filled and rigidly interlocked
 in the recesses, substantially as is indicated
 in Fig. 6. In this manner it becomes un-
 necessary to file, cut, or otherwise nicely fit
 the legs and drum to each other, as the legs,
 15 even if somewhat irregularly cast, can in the
 manner described be turned upon the drum
 to bring them as a set into the proper rela-
 tion to enable the chair-base, when changed
 into its upright position and placed upon the
 20 floor, to stand firm and level thereon. The
 means for effecting the interlocking are also
 of a comparatively inexpensive nature. When
 the chair-base is in position, as in Fig. 1, the
 drum, at the points b^9 , bears upon the legs, the
 25 shell of the drum at the sides of the openings b^6 ,
 bears against the upper end of the leg, and,
 at the lower end of the drum, the bearing of
 the drum upon the leg is through the me-
 dium of the metal, C, which has been intro-
 30 duced into the recesses in the drum as de-
 scribed.

So far as the insertion of the lugs a' through
 the shell of the drum is concerned it is unnec-
 essary that the openings, b^6 , should extend
 35 to the bottom of the drum. But to enable
 the drum to be readily cast it is desirable for
 said openings to be thus extended, and also
 for the other perforations, b^2 , b^3 , to be made
 in the heads of the drum as thereby the core

used in the casting of the drum, can be read- 40
 ily and properly supported in position, and
 in consequence the drum can be easily and
 economically constructed. The legs, as well
 as the drum, are preferably made hollow to
 lighten the structure.

I desire not to be restricted to a special 45
 number of recesses, b^8 , in the drum and cor-
 responding lugs, a^2 , as in attaching a leg to
 the drum, one, two, or more can be employed.
 It is better, however, to adopt the number and 50
 arrangement shown.

I claim—

1. The combination in a chair-base of the
 drum and the legs, said drum has sets of
 openings, b^6 and b^7 , b^7 , in its side, and recesses 55
 opposite the openings b^7 , b^7 , and the legs each
 having the lugs a' and a^2 , a^2 , whereby the legs
 can be adjusted by turning them in the open-
 ings b^6 , and then fastened by filling the un-
 occupied portions of said recesses with cast 60
 metal, substantially as described.

2. The combination in a chair-base of the
 drum, the legs, and the filling, said drum
 having in its side sets of openings, b^6 , and b^7 ,
 b^7 , said legs having the lugs a' and a^2 , a^2 , 65
 which engage respectively in said drum-open-
 ings b^6 and b^7 , b^7 , and said filling interlocking
 said leg-lugs a^2 , a^2 , substantially as described.

3. The herein described hollow chair-base
 drum having its heads perforated at b^2 , b^3 , and 70
 its side cut away at b^6 , b^6 , and slit at b^7 , b^7 ,
 and provided with the recesses b^8 , b^8 , substan-
 tially as and for the purpose set forth.

Witness my hand this 22d day of June, 1892.

ERNEST E. KOKEN.

Witnesses:

GEO. W. SUTHERLAND,
 J. F. SCHARR.