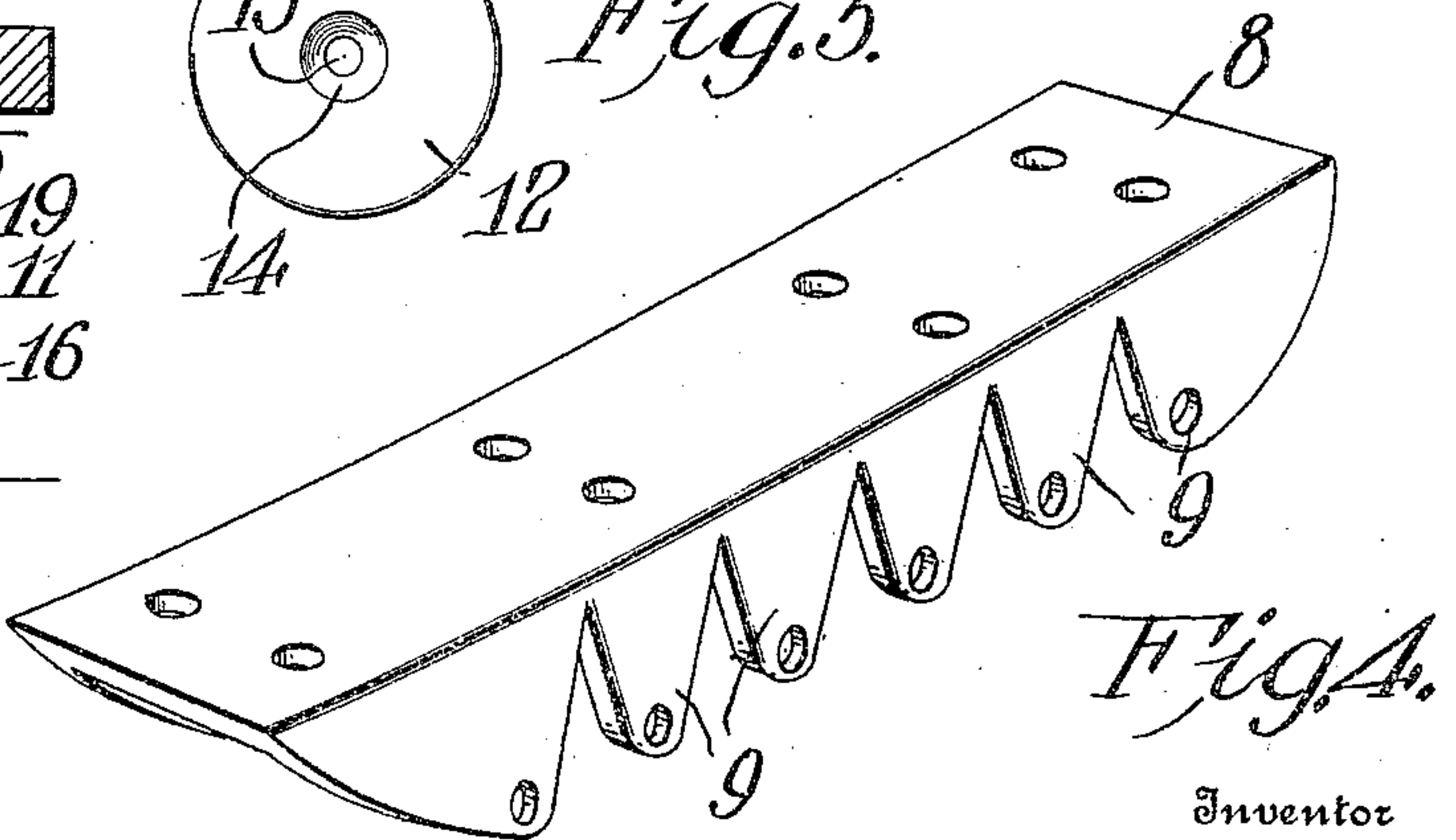
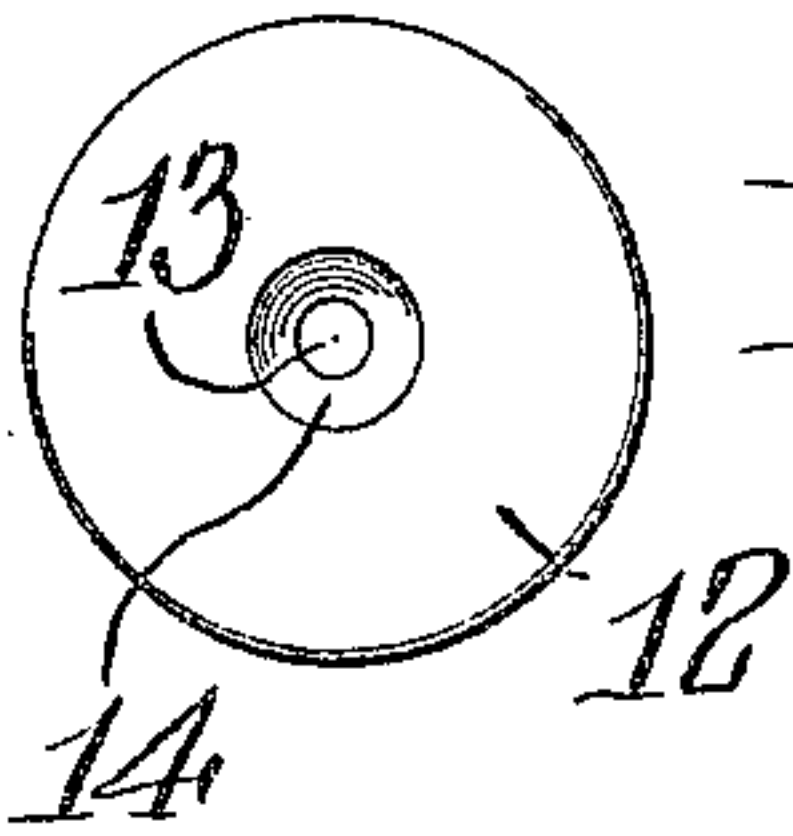
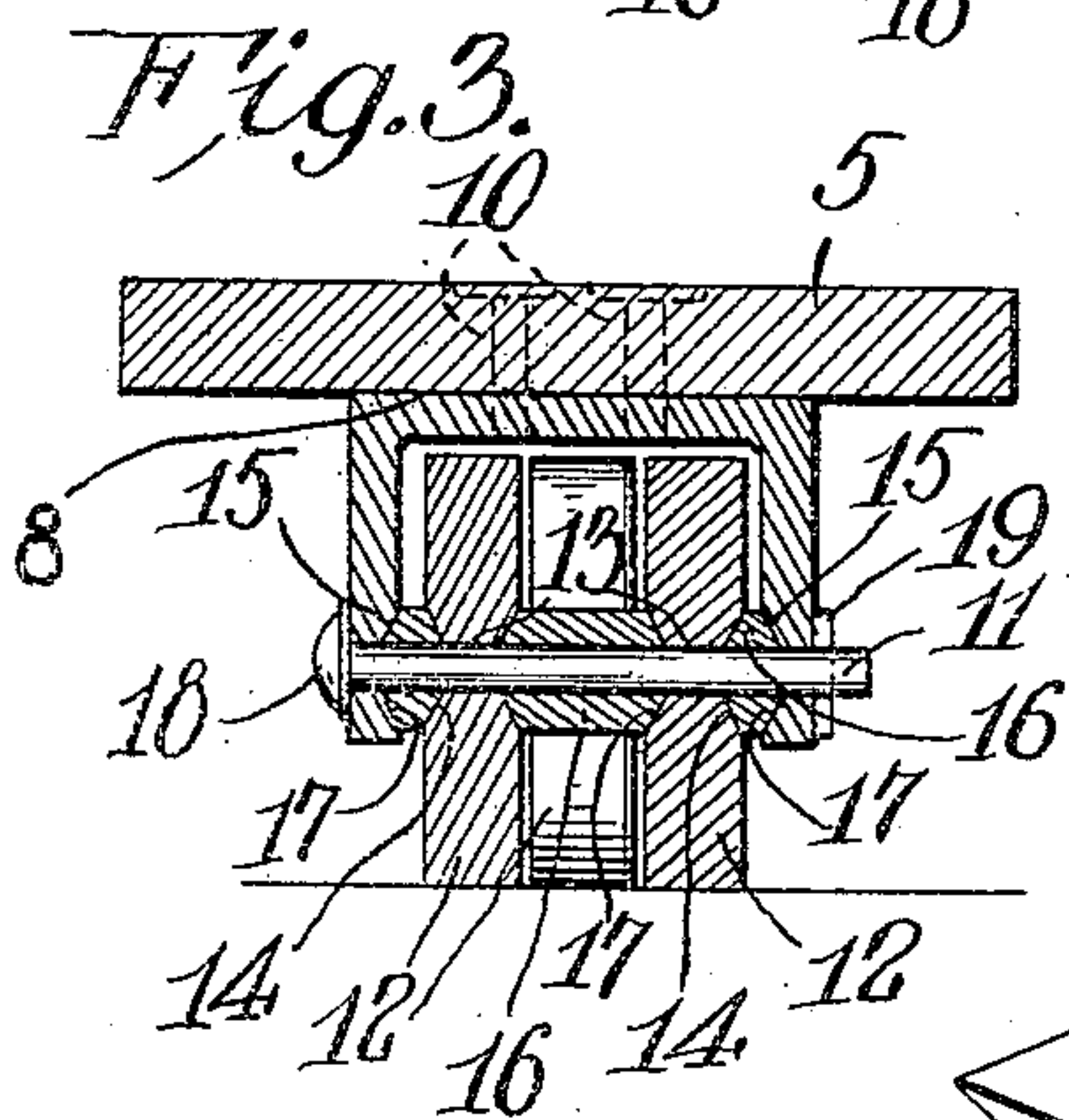
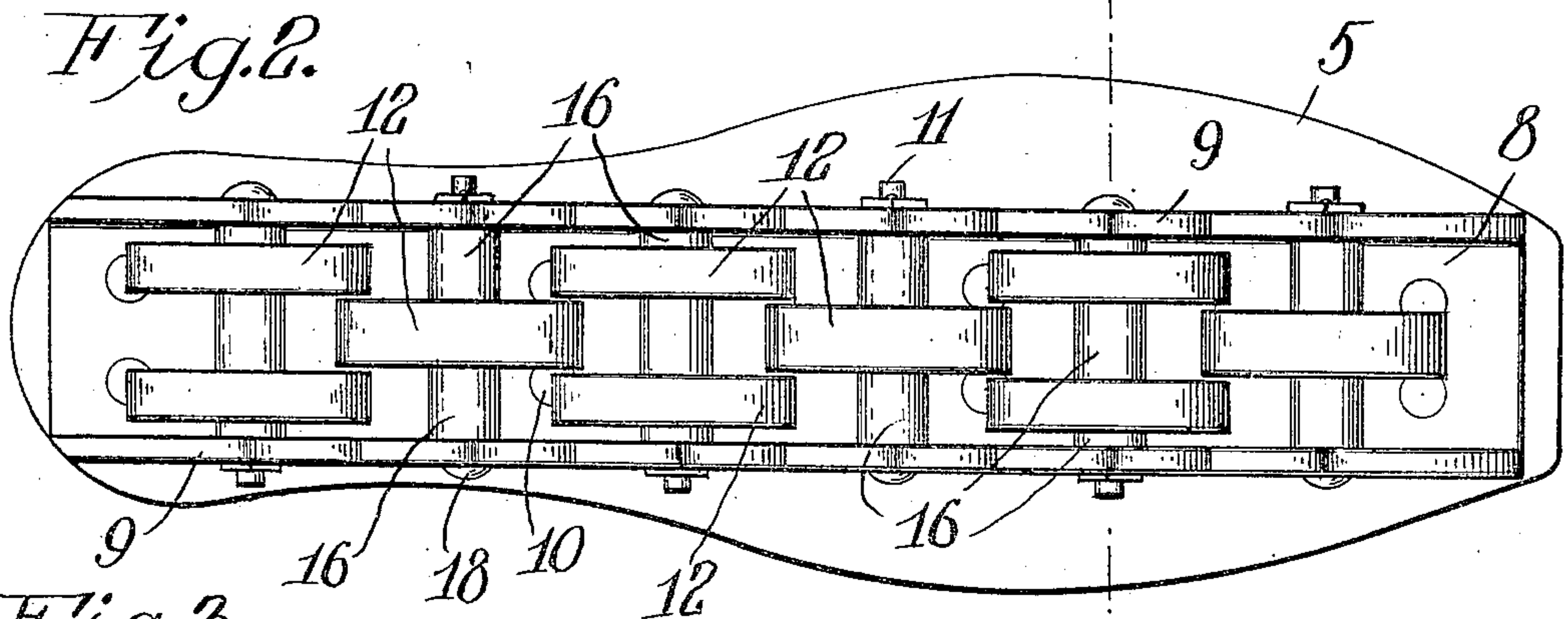
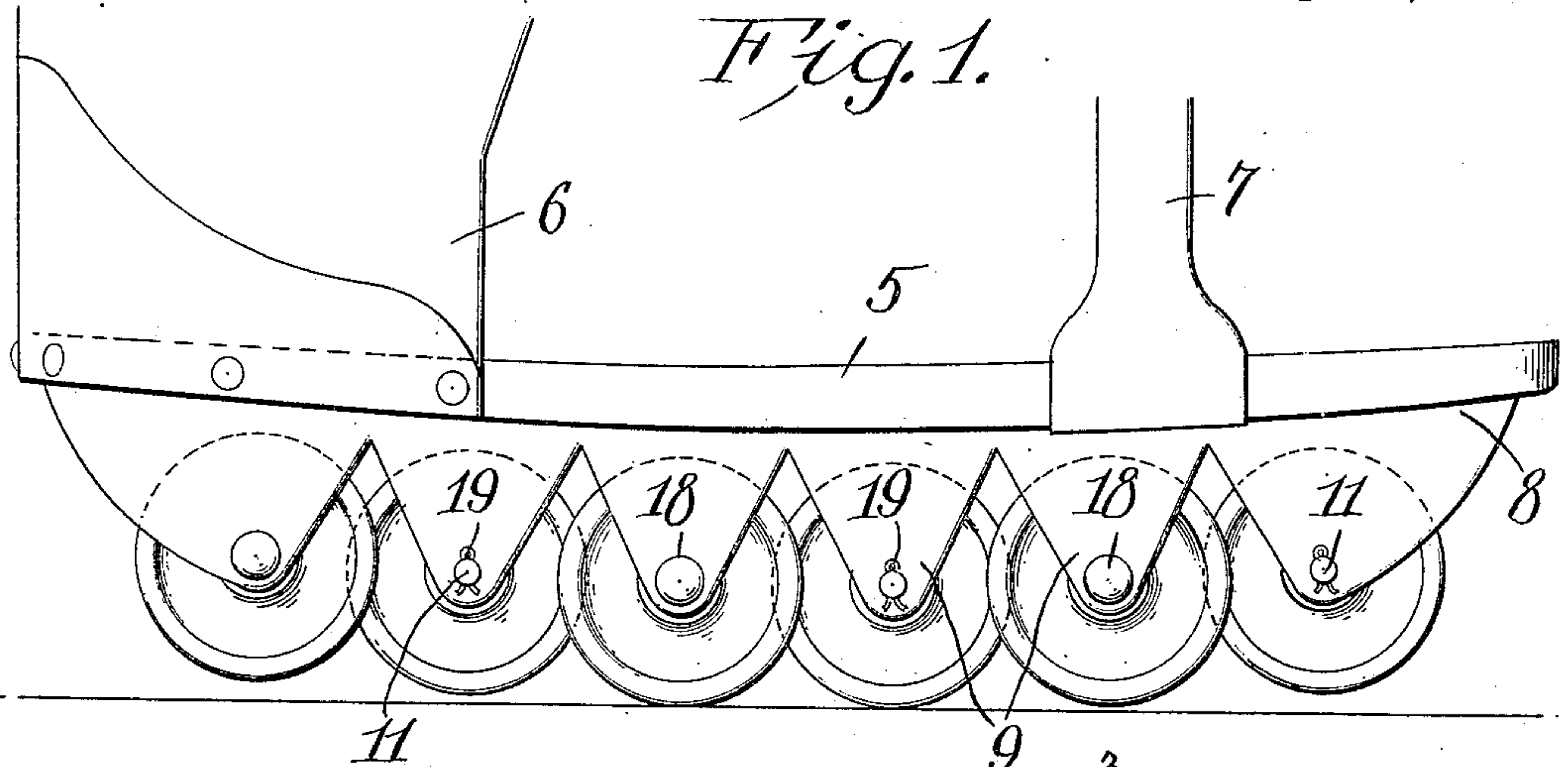


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 ROLLER SKATE.

APPLICATION FILED JUNE 6, 1908.

Patented Apr. 12, 1910.

954,993.



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN W. PETERS, OF CAMDEN, NEW JERSEY; REBECCA A. PETERS ADMINISTRATRIX  
OF SAID JOHN W. PETERS, DECEASED.

## ROLLER-SKATE.

954,993.

Specification of Letters Patent.

Patented Apr. 12, 1910.

Application filed June 6, 1908. Serial No. 437,105.

*To all whom it may concern:*

Be it known that I, JOHN W. PETERS, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

This invention relates to roller skates, and it has for its objects to provide an improved roller skate having wheels or rollers arranged in pairs so as to assist the wearer in preserving his equilibrium, and also equipped with a series of single rollers arranged longitudinally in advance of one another alternating with the pairs of rollers to facilitate the movement over the ground and the execution of various evolutions.

A further object of the invention is to so arrange the several wheels or rollers that only a limited number shall be in actual engagement with the ground at any one time, thus enabling the wearer to turn without lifting his foot from the ground.

Further objects of the invention are to simplify and improve the construction and operation of this class of devices.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described and particularly pointed out in the claim.

In the accompanying drawing has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawings—Figure 1, is a side elevation of the roller skate constructed in accordance with the invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a transverse sectional view taken on the plane indicated by the line 3—3, in Fig. 2. Fig. 4 is a perspective detail view of the roller carrying frame. Fig. 5 is a detail side view of one of the rollers.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved roller skate comprises a foot-board 5, which is provided with means

such as a heel-cap 6 and straps 7 for securing it upon the foot of the wearer. The underside of the foot-board is longitudinally curved and upon said underside is secured a roller carrying frame or hanger which has been illustrated as comprising a plate 8, made preferably of flexible sheet metal of suitable dimensions and provided at the sides thereof with downturned lugs 9, which are so disposed and spaced that they will not interfere with the plate 8 being slightly bent or curved lengthwise so as to enable it to be securely mounted upon the curved underside of the foot-board where it is secured by suitable fastening means such as bolts or rivets 10. The downturned lugs 9, 9, are preferably V-shaped and the notches whereby they are separated extend to the edges of the plate with which the lugs are connected; hence the presence of the lugs will in nowise interfere with or detract from the flexibility of the plate, which may readily be bent and attached to the underside of the foot-board. The downturned lugs 9, 9, which are disposed in pairs at the sides of the plate 8, afford bearings for the pins or pivots 11, upon which the wheels or rollers 12 are mounted for rotation; said wheels or rollers being alternately disposed singly and in pairs as will clearly appear by reference to Fig. 2 of the drawings. The rollers 12 are provided with apertures 13 for the passage of the pins 11, and the sides of said rollers are preferably provided with conical recesses 14 surrounding the apertures 13 for the reception of the correspondingly coned-shaped ends 15 of the spacing members or washers 16, which are disposed intermediate such of the wheels or rollers as are arranged in pairs, and likewise between the sides of the wheels or rollers and the bearing lugs 9; the latter being provided upon their inner sides with conical recesses 17 for the reception of the coned-shaped ends of the washer members. It will be seen that under this construction, when the parts are assembled, the bearing pins 11 will be relieved from the greater portion of the wear and strain which will be taken up by the washer or spacing members, which latter will also largely operate to reduce friction, and thus to facilitate the operation of the device. The pins 11 may be provided at one end with heads 18, and at the other end with cotter-



pins 19, or other suitable well-known retaining means.

It will be readily seen that by the construction and arrangement herein described  
5 the skate is provided with a plurality of sets of wheels or rollers arranged in such a manner that while at all times a sufficient number of rollers will be in engagement with the ground to preserve the equilibrium of  
10 the wearer, still a greater portion of the wheels or rollers will be raised from the ground, and consequently will not interfere with the freedom of the wearer in turning and in performing various evolutions.

15 The general construction is simple and inexpensive and of such a nature as to insure great strength and stability, and little likelihood of the skate breaking down or becoming disabled.

Having thus described the invention, what 20 is claimed is—

In a roller skate, the combination with a supporting frame, of a plurality of pairs of rollers and a plurality of single rollers, the  
25 pairs of rollers and single rollers being disposed alternately in curvilinear arrangement, and the peripheries of the single rollers being disposed within those of the pairs of rollers, whereby a continuous bearing surface is presented from end to end of the  
30 skate.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. PETERS.

Witnesses:

HARRY C. BOWEN,  
JNO. H. FORT.