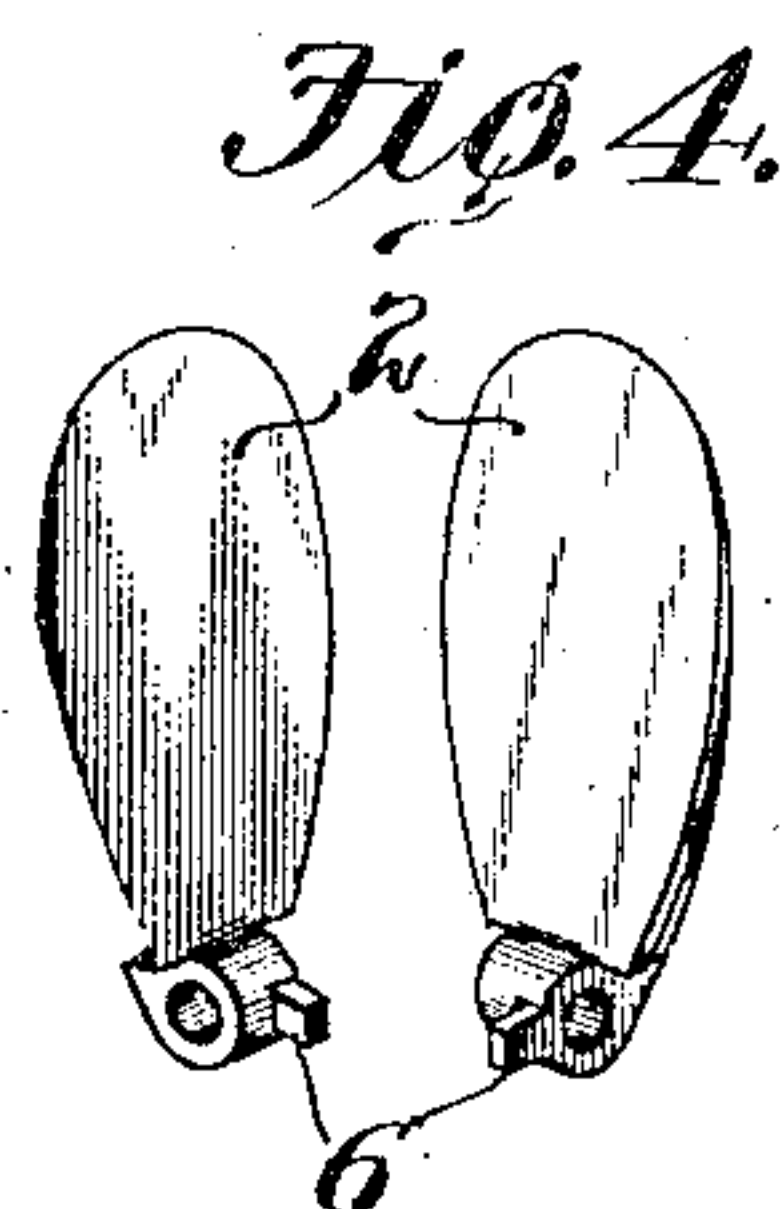
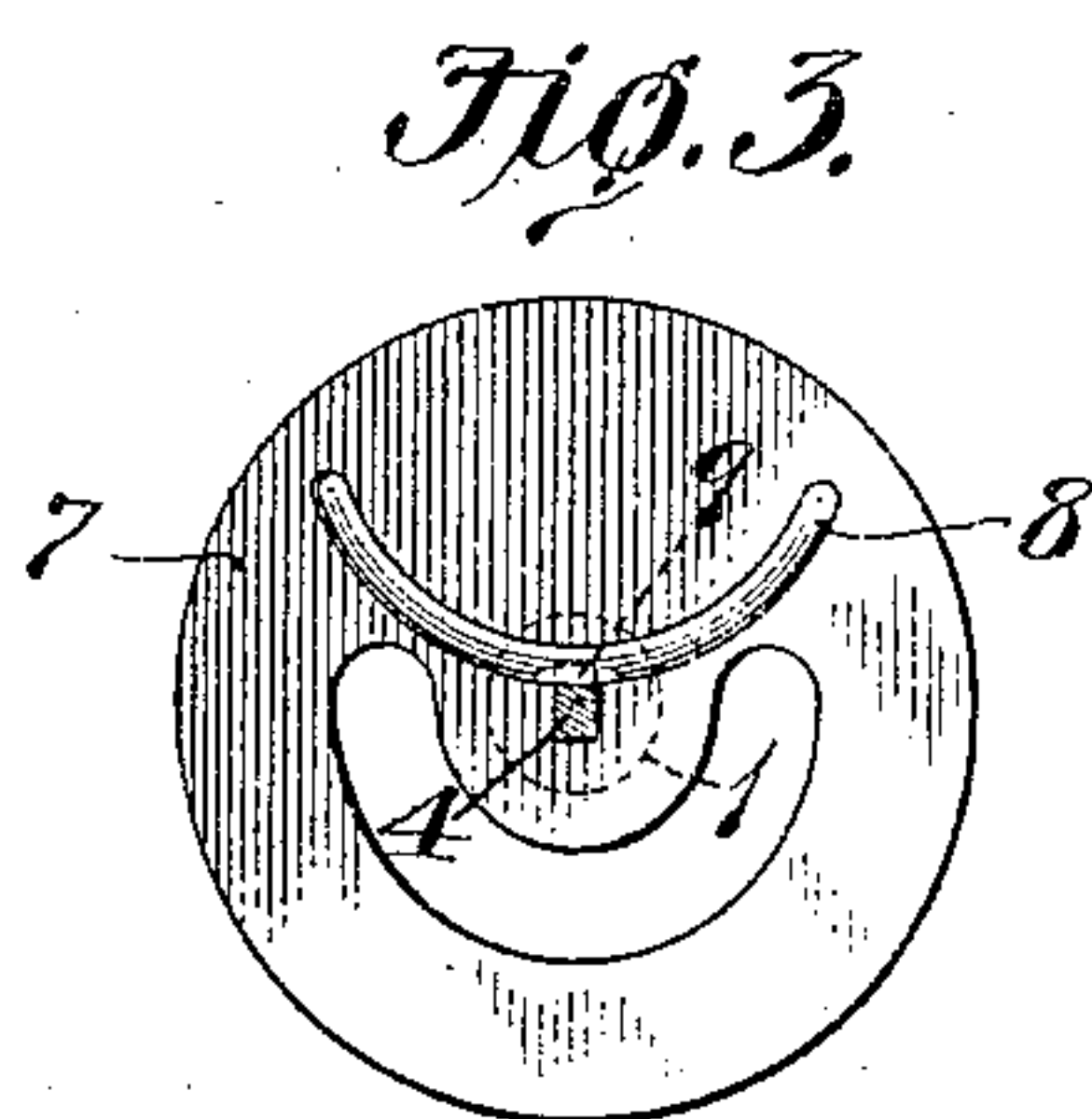
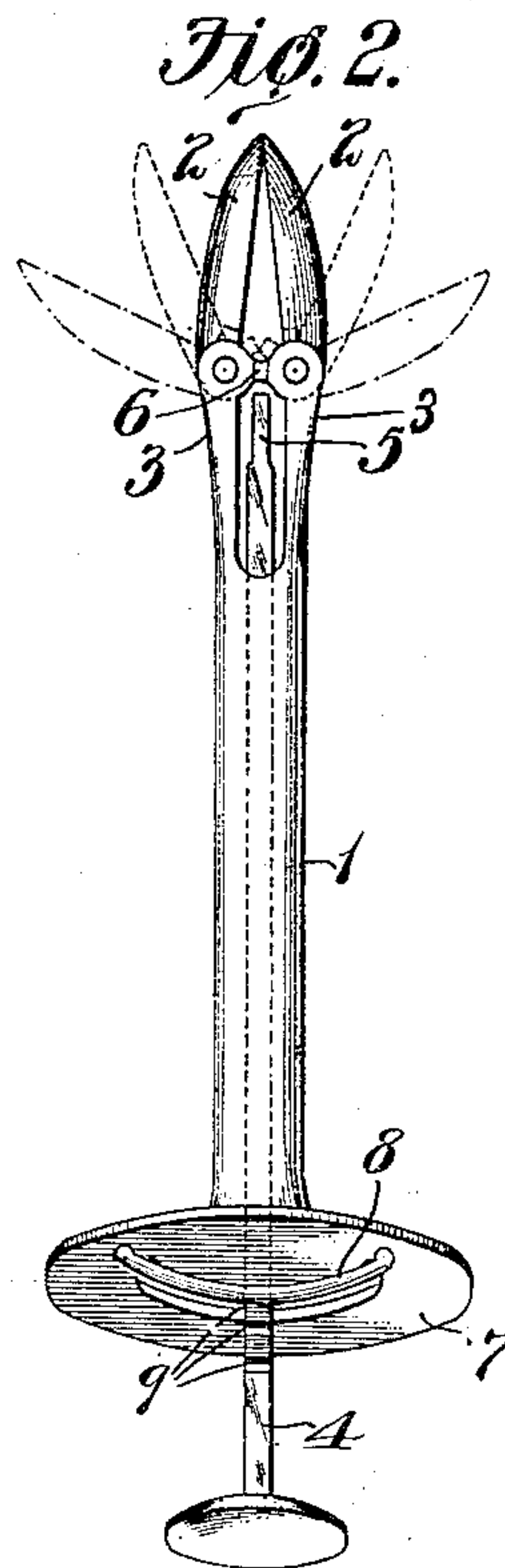
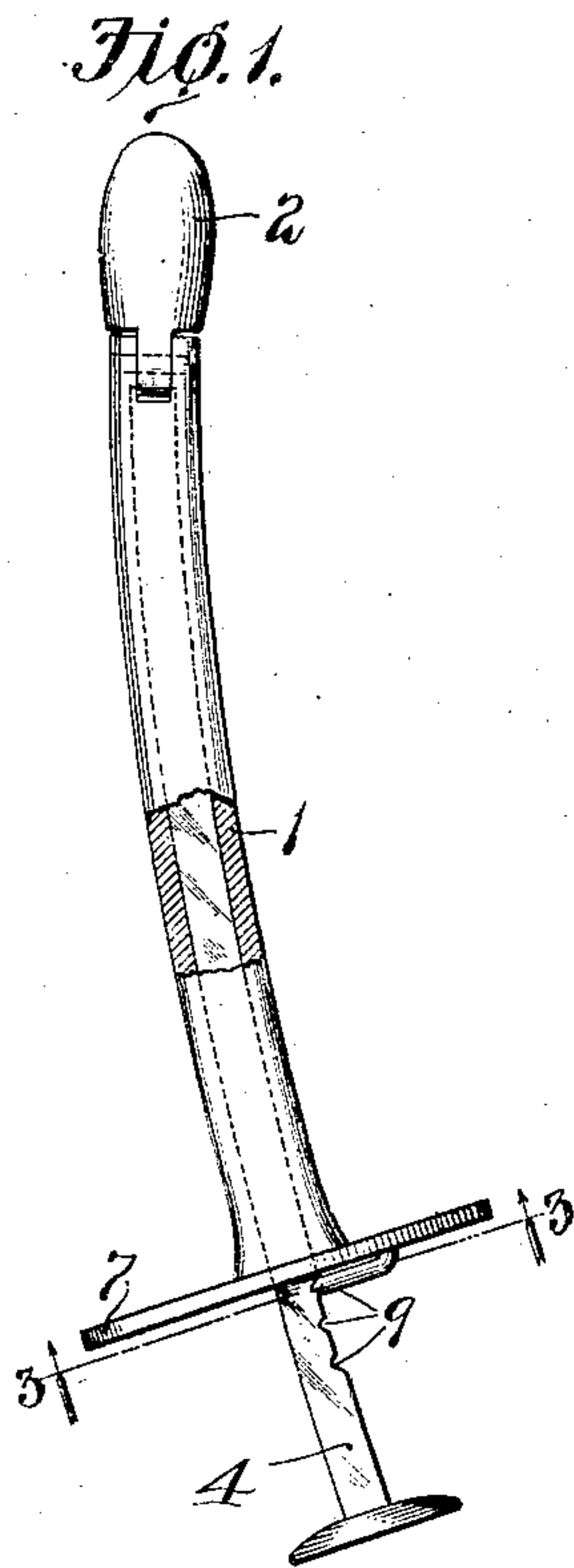


No. 862,712.

PATENTED AUG. 6, 1907.

J. S. COLLINS.
MEDICAL INSTRUMENT.
APPLICATION FILED FEB. 13, 1907.



Witnesses:

*E. R. Ladson.
H. L. Church.*

*Inventor,
James S. Collins.
By Bakerwell Cornwall Attys.*

UNITED STATES PATENT OFFICE.

JAMES S. COLLINS, OF CARLINVILLE, ILLINOIS.

MEDICAL INSTRUMENT.

No. 862,712.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed February 13, 1907. Serial No. 357,175.

To all whom it may concern:

Be it known that I, JAMES S. COLLINS, a citizen of the United States, residing at Carlinville, Illinois, have invented a certain new and useful Improvement in Medical Instruments, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

10 Figure 1 is a side elevation of my improved instrument. Fig. 2 is a front elevation of same. Fig. 3 is a cross sectional view taken on the line 3—3 of Fig. 1, and Fig. 4 is a detail view of the wings which form the expansible head.

15 This invention relates to medical instruments and particularly to an instrument called intra uterine pessary which is used for relieving painful menstruation.

The object of my invention is to provide an instrument of the character described which is so constructed
20 that it can be inserted in the canal leading from the uterus without causing great pain to the patient and which will not be liable to become accidentally displaced after it has been inserted.

The instrument which I have herein shown as embodying the preferred form of my invention consists of a hollow shank adapted to lie in the canal leading from the uterus and provided at its upper end with an expansible head that lies inside of the uterus when the instrument is in position, said head in its expanded
25 condition being of greater diameter than the canal so that the instrument cannot be accidentally displaced. The head preferably consists of a plurality of wings pivotally connected to the hollow shank, and mounted inside of said shank is a member for actuating said wings
30 to expand or enlarge the head, means being provided for varying the degree of movement imparted to said wings so that the size of the head can be changed.

Referring to the drawings, 1 designates the hollow shank having two wings 2 pivotally connected to the
40 upper end thereof, the outer faces of said wings being slightly convexed both longitudinally and transversely

so that when the wings are in their closed position, as shown in full lines in Fig. 2, an approximately oval shaped head will be formed.

The upper portion of the shank is bifurcated to produce two arms 3 to which the wings 2 are pivoted, and reciprocatingly mounted inside of the shank is a member 4 for actuating the wings to move them into their open or expanded position as shown in broken lines in Fig. 2, said member being of non-circular shape in cross section
50 so that it cannot turn or rotate in the shank.

The upper end 5 of the member 4 is wedge shaped and this wedge is adapted to pass between lugs 6 on the inner sides of the wings adjacent the pivots thereof and thereby separate said wings so as to enlarge or expand
55 the head. At the lower end of the shank 1 is a circular base 7 having connected thereto a catch or retaining bar 8 that coöperates with notches 9 in the lower end of the member 4 for holding said member in its elevated position. The member 4 is preferably provided with a
60 plurality of notches as shown on the drawings so that said member can be adjusted in several positions to vary the degree of separation of the wings 2.

Having thus described the invention, what we claim as new and desire to be secured by Letters-Patent is: 65

An instrument of the character described, comprising a curved shank provided at its lower end with an integral circular base 7 and having a non-circular bore extending therethrough, arms 3 at the upper end of said shank, said arms being bifurcated, wings 2 having their inner ends arranged between the bifurcations of said arms and being pivotally connected thereto, lugs 6 on said wings, a member slidingly mounted in the bore of said shank and being of the same shape in cross section as said bore, a wedge at the upper end of said member which passes between the
70 lugs on the wings to separate them, and a retaining bar 8 on the circular base which coöperates with notches in the sliding member to retain it in adjusted position.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this ninth day of February
80 1907.

JAMES S. COLLINS.

Witnesses:

ALEXANDER H. BELL,
FRANK W. BURTON.