

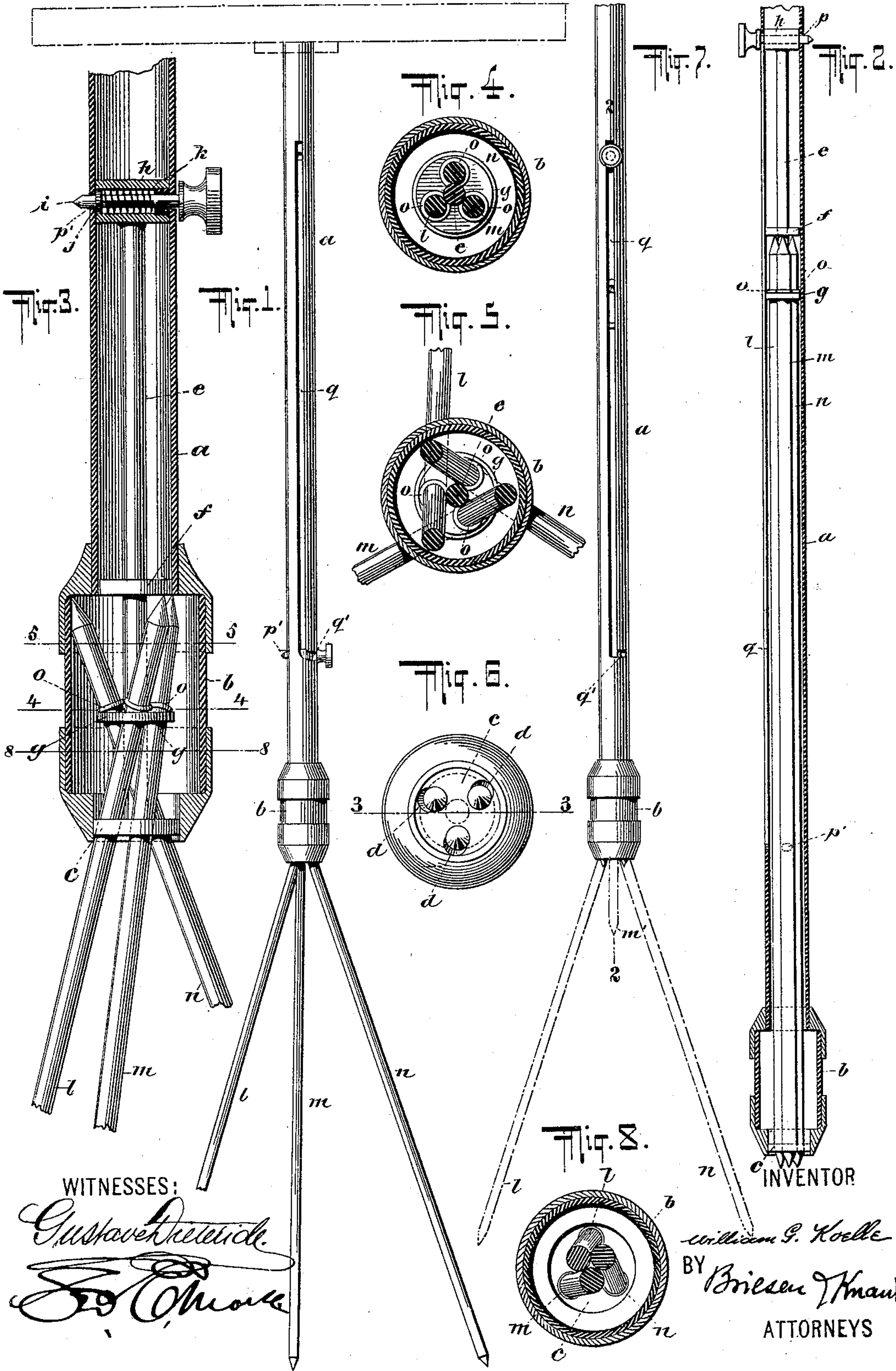
No. 611,754.

Patented Oct. 4, 1898.

W. G. KOELLE.
STAND.

(Application filed Dec. 10, 1897.)

(No Model.)



UNITED STATES PATENT OFFICE.

WILLIAM G. KOELLE, OF NEW YORK, N. Y.

STAND.

SPECIFICATION forming part of Letters Patent No. 611,754, dated October 4, 1898.

Application filed December 10, 1897. Serial No. 661,461. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. KOELLE, a resident of the city of New York, (Brooklyn,) in the county of Kings and State of New York, have invented certain new and useful Improvements in Stands, of which the following is a specification.

My invention consists in the construction hereinafter set forth and claimed.

My invention will be understood by referring to the accompanying drawings, in which—

Figure 1 is an elevation or a side view of a stand embodying my invention, showing the same open. Fig. 2 is a sectional view of the same, showing the stand in its closed or contracted position. Fig. 3 is an enlarged section on line 3 3 of Fig. 6, showing the interior construction of the means for bracing and holding the legs of the stand apart. Fig. 4 is a section on line 4 4 of Fig. 3. Fig. 5 is a section on line 5 5 of Fig. 3. Fig. 6 is an underneath plan view of the enlarged end of the main tube of the stand, and Fig. 7 is a side elevation of a modified form of my invention. Fig. 8 is a section on line 8 8 of Fig. 3.

In the drawings, *a* is a tube or its equivalent and comprises the main tube of the stand, and when hereinafter I refer to the main tube of the stand I mean to be understood as referring to such a tube or its equivalent. *b* is the enlarged end or head of the said tube, which is hollow, as shown, and is provided with a perforated partition *c*, having three or more holes *d* therein, whose outside edges may be beveled away, as shown.

Sliding in the main tube *a* is a rod *e*, shown as provided with a disk or cross-head *f* intermediate its length and an apertured disk or cross-head *g* at or near its lower end. At or near the upper end of the rod *e* a cross-head *h* is carried, which is hollow and carries therein a bolt *i*, having a cross-head *j*, acted upon by a spiral spring *k*, or other character of fastener will be carried by the said cross-head. Rods or legs *l m n* are carried by the cross-head *g* and pass therethrough, being provided with collars or ribs *o* to retain the same in position. The lower and longer ends of these legs pass through the apertures *d* of the cross-head *c*, while the upper ends, preferably pointed with a beveled point, are contained wholly within

the enlarged end, shell, or casing *b* of the main tube *a*.

The mode of operation of my device will be readily understood. When the parts are in the position shown in Fig. 2, the legs are parallel, or substantially so, in the casing and tube and are held in such position by the catch or bolt *i*, passing through an aperture *p* of the main tube *a*. This main tube *a* is provided with a slot *q*, in which the bolt *i* works, so that when it is desired to open the stand the point of the bolt or catch *i* is lifted out of the aperture *p* and the whole supporting structure—to wit, the rod *e* and legs *l m n* and their appurtenant parts—slid downward through the casing until the bolt reaches the lower extremity of the straight portion of the slot *q*. When the bolt has reached the said lower extremity, it is swung laterally in the lower horizontal portion *q'* of the slot *q*, thereby turning the rod *e* and its cross-head, and thereby spreading the legs *l m n*. When the legs are fully spread, their lower ends are wide apart, they contact at the plane 8 8, and their upper ends are brought against the inside face of the casing *b*, and the bolt *i* entered into the aperture *p'* to lock the parts together.

It will be obvious that this construction will make a very firm and strong support and that it may be used for a variety of purposes. When used as a bicycle-stand, I prefer to construct it after the manner shown in Fig. 7, wherein one of the legs *m'* is made short and only two legs reach the ground.

What I claim, and desire to secure by Letters Patent, is—

1. The combination of a plurality of legs, a disk or cross-head *c* through which the said legs pass, a rotatable rod *e* carrying a disk or cross-head through which the said legs likewise pass, and means for rotating the rod and for holding the said rod in a locked position whereby the ends of the legs may be swung apart by the rotation of the rod.

2. The combination of a plurality of legs, a disk or cross-head *c* through which the said legs pass, a rotatable rod *e* carrying a disk or cross-head through which the said legs likewise pass, and means for rotating the rod and for holding the said rod in a locked position whereby the ends of the legs may be swung apart by the rotation of the rod, and a casing

for receiving the thrust of the upper end of the said legs.

3. In a stand the combination of a plurality of legs, a cross-head or disk *g* through which the said legs pass, a cross-head or disk *c* through which the said legs likewise pass, a rod or support *e* for the cross-head or disk *g* and means for locking the parts in an adjusted position.

10 4. The combination of a casing *b*, a cross-head or disk *g* carried thereby, legs passing through the cross-head or disk *c*, a cross-head or disk *g* engaging the said legs and carried by a rod working in the casing and means
15 for moving the rod.

5. In a stand the combination of a casing *b*, disks or cross-heads, one stationary with respect to the said casing and the other movable with respect thereto, legs passing through

the said disks or cross-heads, and means for 20 raising and lowering the legs and spreading the same apart, substantially as described and for the purposes set forth.

6. In a stand the combination of a main tube *a*, provided with a slot *q q'*, a head or 25 casing carried by the said tube *a*, legs passing through the said casing and having means for spreading the same apart and a locking bolt or catch carried in the said tube and sliding freely in the slot *q q'* whereby the legs 30 may be slid forward by downward motion of the bolt or catch in the slot *q* and may be spread by a lateral motion of the bolt in the part of the slot *q'*.

WILLIAM G. KOELLE.

Witnesses:

GEO. E. MORSE,

CHARLES E. SMITH.