

[54] **MICRO ADJUSTABLE SHOOTERS' TRIPOD**

[72] Inventors: **Antonio C. Barone**, 74 Michele Drive, Depew, N.Y. 14043; **Stephen Jasinski**, 42 Nassua Lane, Cheektowaga, N.Y. 12123

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[58] Field of Search **42/94; 89/37 BA**

[56] **References Cited**

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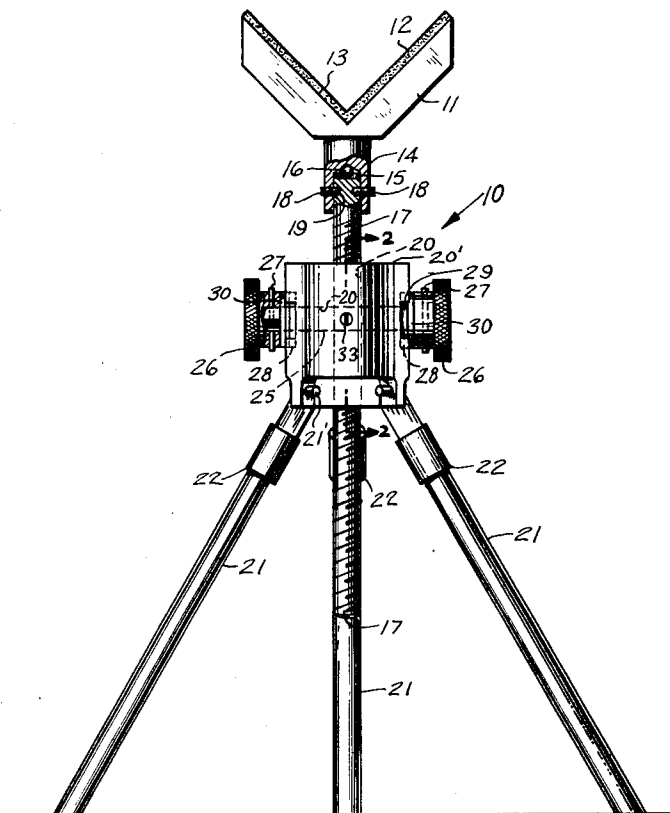
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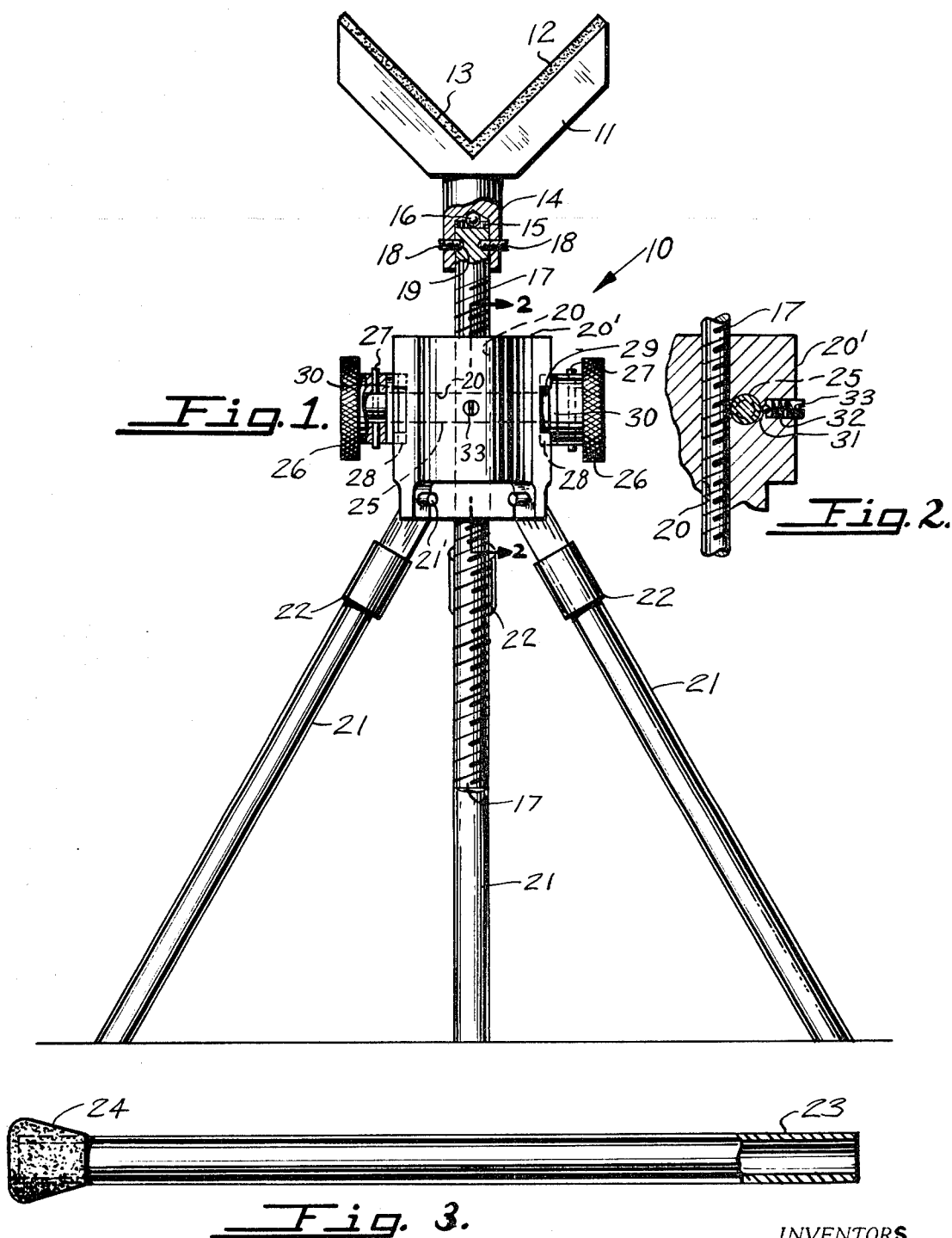
Primary Examiner—Benjamin A. Borchelt
Assistant Examiner—C. T. Jordan

[57] **ABSTRACT**

An adjustable mechanical device for supporting a rifle or pistol while taking aim, thus greatly increasing the shooters' accuracy. This device includes a V shaped rest portion for supporting the rifle or pistol, and may be used for target shooting from a bench or from the prone position after removing the leg extensions. The device also may be used for shooting from a sitting position when the leg extensions are slipped over the tripod legs. The V shaped rest member may be elevated to any desired position by nob controls.

2 Claims, 3 Drawing Figures





INVENTORS
Antonio C. Barone
Stephen Jasinski

MICRO ADJUSTABLE SHOOTERS' TRIPOD

This invention relates to a fire arm support device and more particularly to a mechanically adjustable tripod.

It is therefore the primary purpose of this invention to provide a tripod which will be versatile enough to be used both by pistol and rifle shooters.

Another object of this invention is to provide a tripod device which will serve to increase the shooters accuracy and may be used for target or various shooting where extreme accuracy is essential.

A further object of this invention is to provide a target rest device for fire arms which will be light in weight and will have folding legs thus allowing it to be carried and used easily, the device being rapidly adjusted vertically while taking aim and having nothing to tighten or loosen; the device also being suitable for a tall or short person.

A still further object of this invention is to provide a device of the type described which may be used for bench rest shooting and may be also used for shooting in the prone position by removing the leg extensions thereof, and the device may also be used by the shooter in a sitting position when the leg extensions are slipped over the tripod legs.

Other objects of the present invention are to provide a micro adjustable shooters tripod which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will become readily evident upon a study of the following specification together with the accompanying drawing wherein:

FIG. 1 is a verticle view of the present invention shown partly broken away;

FIG. 2 is a cross sectional view taken along the lines 2—2 of FIG. 1; and

FIG. 3 is a horizontal view of one of the leg extensions of the invention shown in elevation.

According to this invention, an adjustable tripod 10 is shown to include a V shaped rest member 11 made of aluminum or other suitable material. A pad 12 of felt or other suitable material is secured in a suitable manner to the surface 13 of the interior of rest member 11 and provides protection against possible marring of the fire arm placed within rest member 11. The shank 14 of rest member 11 has within its bore 15 a ball 16 which rests on top of the rack shaft 17, and a pair of oppositely opposed screws 18 within shank 14 ride within the slot 19 of shaft 17, and shaft 17 is freely carried within the central opening 20 of the main body 20'. A plurality of tubular legs 21 are secured pivotably to the lower extremity of the main body 20' by means of pins 21', and legs 21 include shoulder 22 which serves as stop means for the tubular extension legs 23 having feet 24. The tubular extension legs 23 are telescopically received upon tubular legs 21 when it is desired to elevate tripod 10 higher than shaft 17 will allow. The horizontal short and grooved shaft 25 engages the threaded portion of shaft 17 and is carried through main body 20' and provides a means of elevating the rest member 11 by means of the knurled adjustment nob 26. Nobs 26 are secured to shaft 25 by means of transverse pins 27. A washer 28 on each end of shaft 25 bears against the reset portion of main body 20', and a wave washer 29 bears against washer 28 and 30, the nobs 26 bearing against washer 30, the combination allowing for fine

adjustment. A detent ball 31 engages a grooved portion of the shaft 25 and allows for positive click adjustment in elevating shaft 17, a spring 32 urging against detent ball 31 at one end and urging against screw 33 at the other end provides continuous detent action against the grooved shaft 25.

In use, elevating the rest member 11 which supports the fire arm is accomplished by the user grasping and rotating adjustable nobs 26 which by the detent ball means 31 will cause the shaft 17 supporting the rest member 11 to be raised or lowered to any desired elevation in micro units of elevation.

It shall be noted that all of the major components of tripod 10 are made of aluminum or other light weight material in order that tripod 10 may be easily carried.

What we now claim is:

1. A tripod device for rifle and pistol shooters, comprising a main body, a threaded rack shaft carried by said main body for elevating a fire arm rest member, securement means for said rest member to said threaded shaft, a plurality of tubular leg members carried by said main body providing support means for said device, a horizontal and grooved shaft carried by said main body with knob means for adjusting the elevation of said device, detent means carried by said main body for providing positive quick adjustment for the elevation desired, tubular extension legs carried by said device for raising the main body of said device and the other components thereof, said threaded and elevating rack shaft carrying said rest member being slidably received through a central bore in said main body, said rest member being of V-shaped configuration and being padded to prevent damage to a fire arm supported therein, said rest member having a shank secured by oppositely opposed screws carried through said shank, said screws riding in screw thread grooves of said threaded rack shaft which elevates said attached rest member, ball means carried within a bore of said shank resting upon the upper extremity of said rack shaft carrying said rest member and allowing swiveling thereof, said threads of said rack shaft within said central bore of said main body engaging with grooves of a short horizontal shaft, said short horizontal shaft having knurled knob means on each end for rotating said horizontal shaft in order to obtain the desired elevation of said rest member, higher elevations of said rest member being accomplished by the placement of said tubular extension legs onto said legs of said main body, said tubular extension legs being telescopically received upon said tubular legs of said main body, and said tubular legs of said main body having pin means for pivoting said tubular legs upon the lower assembly of said main body of said device.

2. The combination according to claim 1 wherein shoulder means of said tubular legs, which are pivotable at the lower extremity of said main body, provide stop means against the open ends of said extension legs when said extension legs are placed telescopically upon said tubular legs of said main body, said detent means including a spherical ball engaging the parallel grooves on the periphery of said horizontal shaft and being urged there against by a spring within an opening through said main body, the opposite end of said spring engaging with the end of an adjustable screw which provides the tension desired upon said detent ball, and

washer means within grooves through the outside of
said main body providing tension means against said
adjustable knobs, said adjustment knobs being secured
by transverse pins carried through said knobs in said
horizontal shaft which provides a means for elevating 5
said threaded central shaft securing said rest member.

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