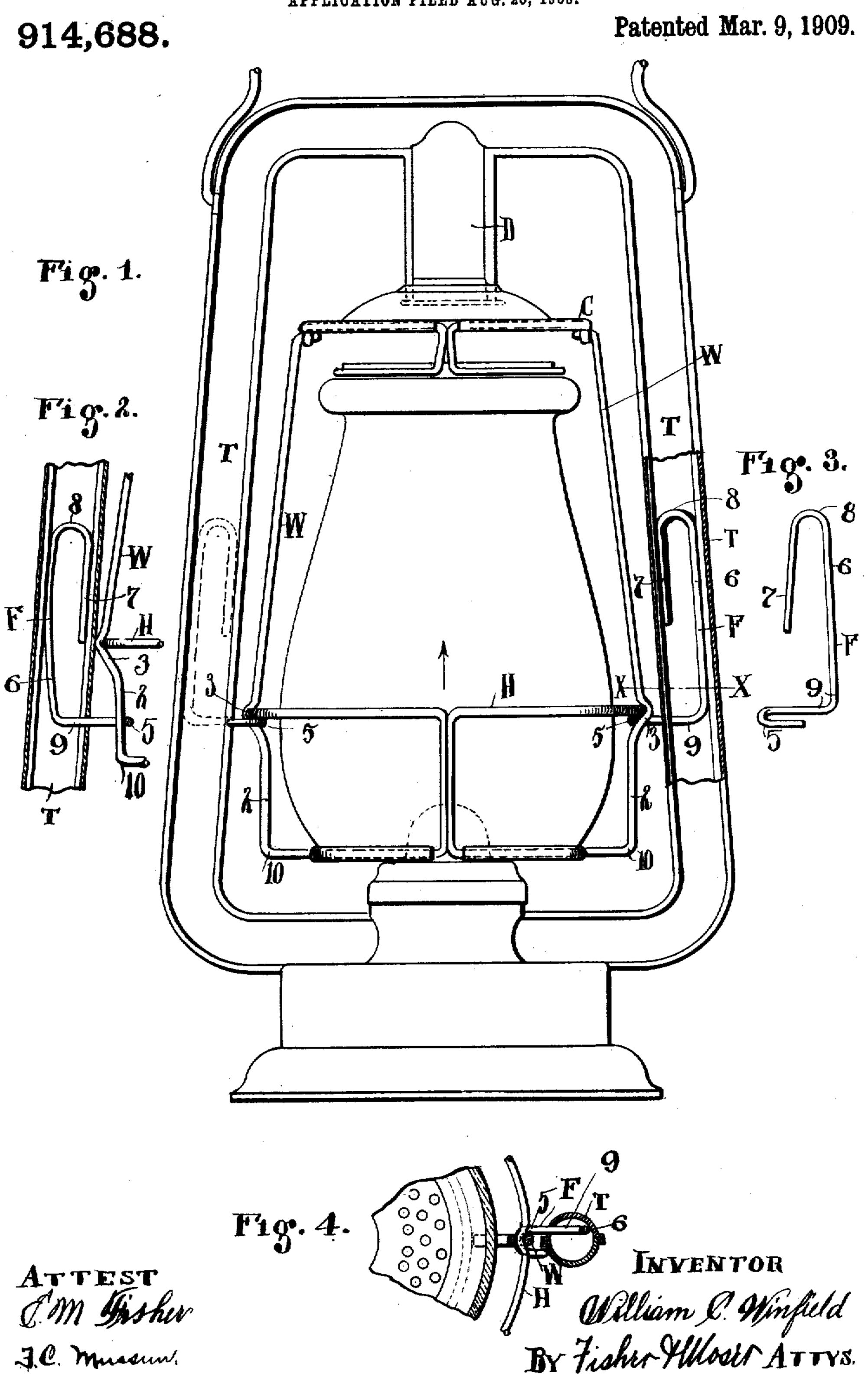
W. C. WINFIELD.

TUBULAR LANTERN.

APPLICATION FILED AUG. 20, 1908.



UNITED STATES PATENT OFFICE.

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TUBULAR LANTERN.

No. 914,688.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed August 20, 1908. Serial No. 449,516.

To all whom it may concern:

Be it known that I, WILLIAM C. WIN-FIELD, a citizen of the United States, residing | tions 2 of said wires are offset inward some-5 State of Ohio, have invented certain new and useful Improvements in Tubular Lanterns, and do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to 10 which it appertains to make and use the same.

My invention relates to improvements in tubular lanterns, and the invention consists in means for holding the globe guard and globe at any desired elevation so that the 15 lantern may be lighted, all substantially as shown and described and particularly point-

ed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a lantern embodying 20 my invention with one of the side tubes partially in section and showing the globe guard down on its seat. Fig. 2 is a vertical sectional elevation of a portion of one of the side tubes and one of the friction engaging 25 devices for the globe guard and a portion of a side wire of said guard engaged by said device and held as occurs when the globe is raised from its seat, as hereinafter fully | T and is formed with a hook 5 outside said described. Fig. 3 is a detail of one of the 30 said friction engaging devices, and Fig. 4 is a plan view on line x—x, Fig. 1.

The invention is comprised in the parts thus shown and described and particularly in the means for frictionally engaging the 35 side wires W of the globe guard or frame and thus supporting the said guard with the globe at any preferred elevation above its seat, assuming that such elevation or lift is sufficient to enable one to light the lantern 40 with a match or taper. The said side wires | W have a slight lateral or outward bend or depression 3 of approximately V shape in their lower portions adapted to engage the horizontal wire H of the globe guard on 45 their inside, and said side wires are straight and parallel or substantially parallel with each other from said bends 3 downward to the right angled bend 10, as seen in Figs. 1 and 2, and which straight portion is indicated | of its retirement in bend 3 onto the straight 50 by numeral 2. At their upper ends the said side wires W connect with the edge of the canopy C by pivot as usual, and said canopy | Hence the globe is held higher or lower by is slidably mounted upon the central draft | the said spring devices at any desired eletube D.

that said wires run at an inclination between the canopy and bends 3, while the lower porat Warren, in the county of Trumbull and | what at said bends and stand vertical from that point down to angle or corner 10, thus 60 bringing the two portions of said wires into different vertical planes in side view and causing a distinct pull or draw to be made upon the said friction members F when the globe guard is raised and the said members 65 or devices are forced out of the recesses or bends 3 and into engagement with the straight wire portions 2 below the same. The outward bends or depressions 3 in the side wires therefore serve not only as a point 70 of engagement with and for the horizontal guard wire H, but also as a place of retirement for the hook or loop 5 of the friction spring supporting members F. To this end the said members or devices are preferably 75 made of spring wire fashioned to be bodily inserted into the side tubes T of the lantern and have straight body portions 6, spring stems 7 and U shaped bends 8 connecting body and stem, while the other end 9 is bent 80 at right angles in the plane of stem 7 and projects inward through a hole in the tube tube and engaged over wire W. In point of location said loop or hook comes almost 85 directly opposite depression 3 in the side wire W when the globe is down upon its seat, as in use, and therefore is normally engaged or lies in said depression or bend just below wire II as a place of rest, and at which time 90 its spring action is at its minimum. This appears by reference to Fig. 1, in which the globe is seated and the bodies 6 of said spring devices F are pressed back against the wall of the tubes and their hooks 5 are drawn 95 back into said depressions 3 by the spring action of stem 7 bearing against the opposite sides of said tube. On the other hand when the globe is raised, as presumably in Fig. 2, the main portion 6 of the device is sprung 100 outward somewhat in its lower portion against the resistance of its own spring end 7 and the hook or loop 5 is carried down out portion 2 of the wire, where the friction is 105 sufficient to hold the globe in raised position. vation by a sliding contact on a perfectly A feature in side wires W to be noted is | plain and straight surface. It will be no- 110

ticed that the engagement of loops or hooks 5 of the said friction sustaining members F 5 gins as soon as said hooks or loops 5 leave tubes having substantially loop shaped por- 45 as a peculiarity of this construction, that the i side wires. said spring members F are wholly retired with- 4. A lantern having side tubes and a spring ic in the side tube of the lantern and hence device confined in each tube having a portion 50 15 lantern in point of appearances and keeps portions of said spring devices.

exposure to the elements.

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up and down movements under such fric- neath said depressions operatively engaged tional tension by the said members F that by said side projections. 25 the guard is held up at any point of engage- | B. A lantern having side tubes and a cen- 65

necessary for the guard.

What I claum is: and frictionally engaging said side wires.

35 2. A lantern having side tubes and a guard with side wires, and a spring device confined within each tube having engagement with the corresponding side wire of the guard and adapted to spring back and forth in the wall

40 of the tube.

3. A lantern having side tubes with holes through the inner sides thereof and a globe is with the wires W on the inner side and guard having side wires next thereto, in that suspension or support of the globe be- combination with springs located within said the depressions 3 and enter upon said tions extending outward through said holes strai ht portions 2. It is to be noticed, also, and having sliding engagement with the said

entirely out of the way mechanically and extending through the tube, in combination out of sight except in their small and almost with a globe guard having vertical side unnoticeable projecting portions 5. This wires provided with bends in their lower porboth contributes to the attractiveness of the tions in sliding relation with said yielding

the main operating members within cover so 5. A lantern having side tubes, a device as to avoid possible injury by accident and blocated in each tube having a spring portion at one end confined in the tube and a projec-In the operation the tube D at the top and | tion at the other end extending through the 20 the friction members F at the sides in con- wall of the tube, in combination with a globe 60 junction with the side wires W serve as guard having side wires provided with outguides for directing the said guard in direct | ward depressions and straight portions be-

ment on the straight portions 2 of the guard tral tube at its top, in combination with a wires, and there is no special stopping point | globe guard and canopy slidably engaged with said central tube, and guides located in said side tubes having spring stems at one 30 1. A lantern having side tubes and a end and right angled hook shaped projec- 70 globe-guard with vertical side wires, and tions at the other end extending through springs within the said tubes having ends; holes in said side tubes and engaging the inprojecting through the inner sides thereof ner surface of the side wires of the globe guard.

In testimony whereof I sign this specifica- 75 tion in the presence of two witnesses.

WILLIAM C. WINFIELD.

Witnesses: E. M. FISHER, R. B. Moser.