Feb. 10, 1948. J. H. GREENE 2,435,650

ILLUMINATED WALKING STICK

Filed Jan. 16, 1946

Fig. 1.

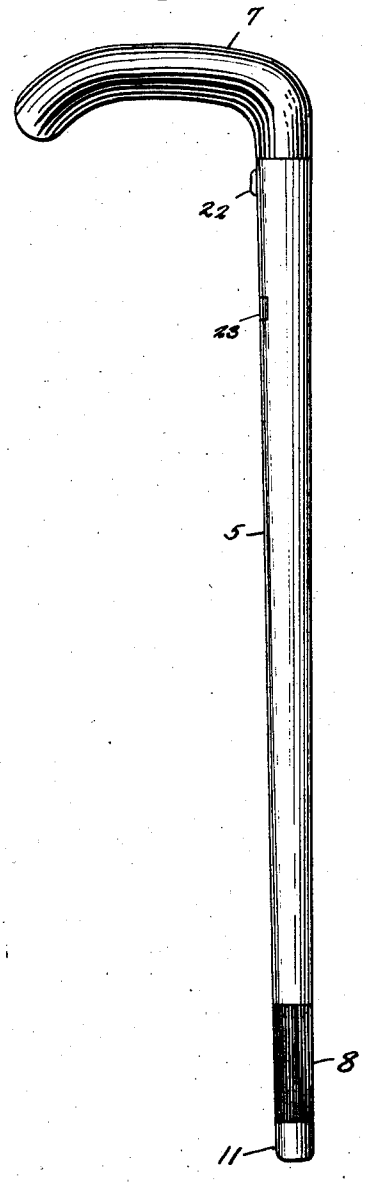
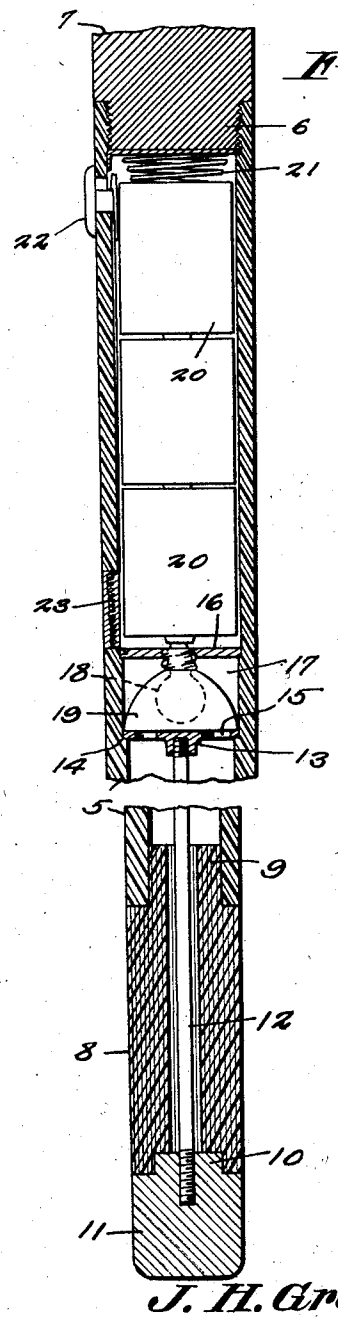



Fig. 2.




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Patented Feb. 10, 1948 2,435,650

# UNITED STATES PATENT OFFICE

2,435,650

## ILLUMINATED WALKING STICK

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Application January 16, 1946, Serial No. 641,544

2 Claims. (Cl. 240—6.42)

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It is generally known that the major portions of canes used by persons who have lost their sight, and which are symbolic of the blind, are white, while directly above the tip end of the cane is a section colored red.

It is therefore the primary object of the invention to provide a cane or walking stick having means whereby the section thereof colored red, may be illuminated and clearly visible in the dark, rendering night walking less dangerous for the blind.

Another object of the invention is to provide a walking stick having a self-contained light, which is controlled by a switch conveniently located adjacent to the handle of the walking stick, to the end that the electric current to the lamp of the device may be readily snapped on or off by the person using the walking stick.

Still another object of the invention is to provide electrically controlled heating means in circuit with the lamp of the device, adapted to heat a section of the walking stick adjacent to the handle, indicating to the user that the lamp is lit.

Another important object of the invention is to provide a walking stick which will be exceptionally strong to withstand the strain to which a walking stick may be subjected, when in use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing

Figure 1 is an elevational view of a walking stick constructed in accordance with the invention.

Figure 2 is a longitudinal sectional view therethrough.

Referring to the drawing in detail, the walking stick embodies a main hollow section 5 which is formed with internal threads formed adjacent to its upper end, for the reception of the threaded end 6 of the handle 7, whereby the handle is removably connected to the main section 5. The reference character 8 indicates the signalling section of the walking stick, which may be constructed of any suitable translucent material, the section 8 being formed with a reduced end 9 which is fitted into the open end

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of the main hollow section, as clearly shown by Fig. 2 of the drawing.

The section 8 is formed with a longitudinal bore disposed axially thereof, and the lower end of the signalling section is reduced to receive the extension 10 of the tip 11. The tip 11 is formed with a threaded bore to accommodate the threaded lower end of the connecting rod 12, which is of a diameter appreciably less than the diameter of the bore of the signalling section, providing an annular light space around the rod 12.

The rod 12 has its upper threaded end fitted in a threaded opening formed in the disk 13, which rests against the annular shoulder 14 formed internally of the main hollow section 5. Thus it will be seen that when the tip has been positioned against the lower end of the signalling section 8 of the walking stick, the signalling section 8 and the tip will be securely held to the main hollow section 5 but at the same time the sections may be readily disconnected to facilitate repair work on the walking stick.

The disk 13 is formed with a plurality of openings 15 which are arranged in a circular line. Directly above the disk 13 and disposed in spaced relation therewith, is a partition 16 which forms a lamp compartment 17 with the disk 13. The partition 16 is formed with a threaded opening to receive the threaded end of the lamp 18 which lamp also fits into the reflector 19, so that light rays from the lamp will be projected downwardly through the openings 15 and into the annular space within the signalling section 8, illuminating the signalling section. It might be further stated that the translucent material of which the signalling section is constructed, is colored red to the end that light rays projected through the section 8 will result in an illuminated red signal at the tip end of the cane or walking stick.

The reference character 20 indicates batteries or dry cells which are contained in the main hollow section, the batteries being forced towards the lamp, by means of the coiled spring 21 that rests against the threaded end 6 of the handle.

A switch indicated at 22 controls the electric circuit to the lamp, and is so disposed that it may be conveniently operated while the walking stick is being carried in the hand of the user.

The reference character 23 indicates an electric resistance wire which is mounted in the wall of the main hollow section 5, the resistance wire being in circuit with the lamp so that electric energy passing through the lamp, will also pass into the coil, heating a section of the walking stick, to

indicate to the person using the walking stick, that the lamp is lit and is functioning.

What is claimed is:

1. An illuminated walking stick, comprising a main hollow section and a tip section, a translucent section formed with an axial bore and being of a distinctive color, a disk formed with openings mounted within the main hollow section at one end of the translucent section, a rod connected to the disk and tip section securing the sections of the walking stick together, said rod passing through the bore of the translucent section and being of a diameter appreciably less than the diameter of the bore, thereby to provide a light passageway around the rod, and an electric lamp mounted above the disk and adapted to direct light rays through the openings of the disk and light passageway, illuminating the translucent section of the walking stick.

2. An illuminated walking stick, comprising a main hollow section and a tip section, an annular shoulder within the main section, a disk having openings resting in the annular shoulder, a disk



disposed above the first mentioned disk, and providing a lower compartment in which a lamp is positioned, batteries and a switch mounted within the walking stick for illuminating the lamp, a translucent section connecting the tip and main hollow section, the translucent section having a bore, a rod extending through the bore in spaced relation with the wall thereof, and said rod being connected with the first mentioned disk and tip, drawing the translucent section, tip section and main hollow section together.

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## REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

| Number | Name | Date |
|---|---|---|
| 1,083,520 | Burgess | Jan. 6, 1914 |
| 2,245,349 | Lombardi | June 10, 1941 |
| 1,659,346 | Beatty | Feb. 14, 1928 |
| 2,271,190 | Giaimo | Jan. 27, 1942 |