

No. 775,114.

PATENTED NOV. 15, 1904.

J. N. MAXWELL.  
LUBRICATING DEVICE FOR MINE CAR WHEELS.

APPLICATION FILED APR. 8, 1904.

NO MODEL.

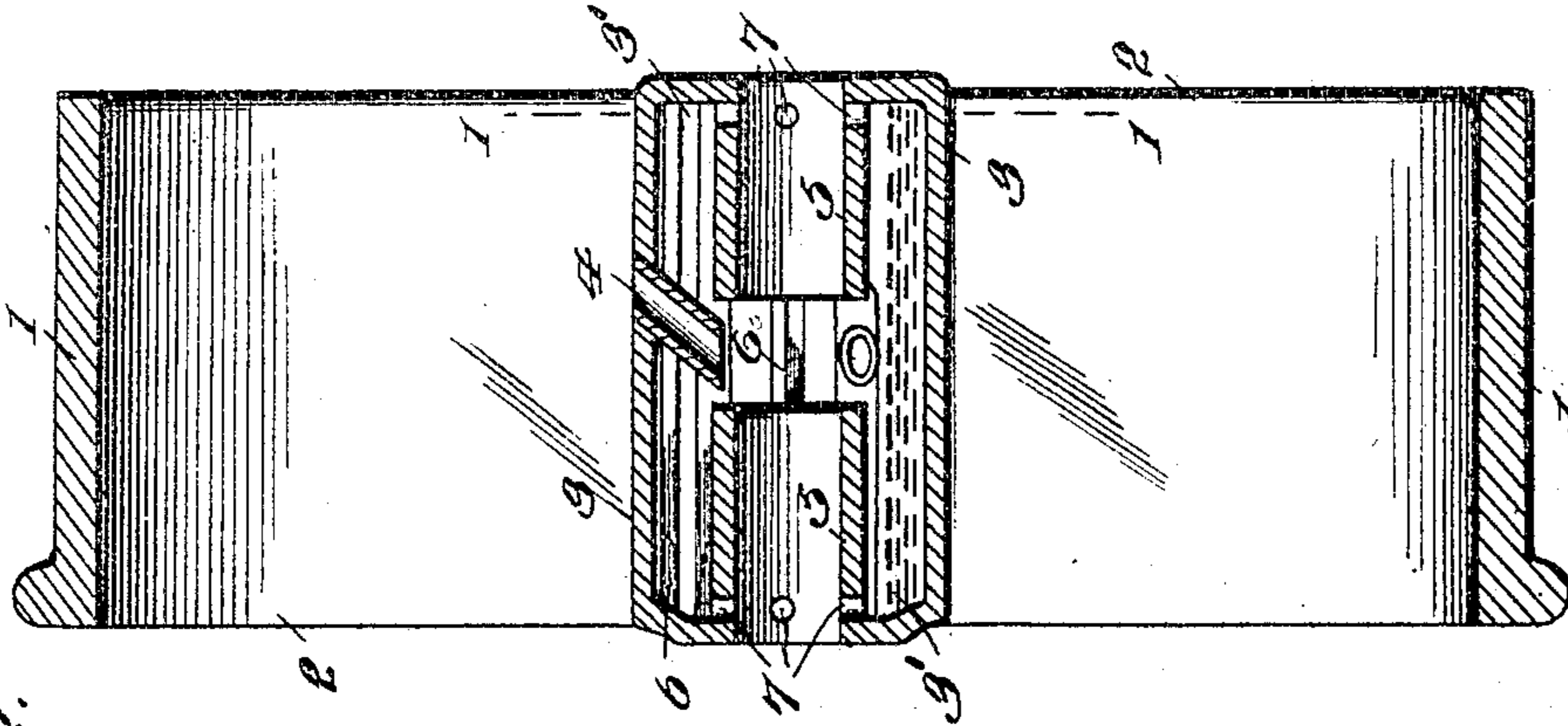


Fig. 2.

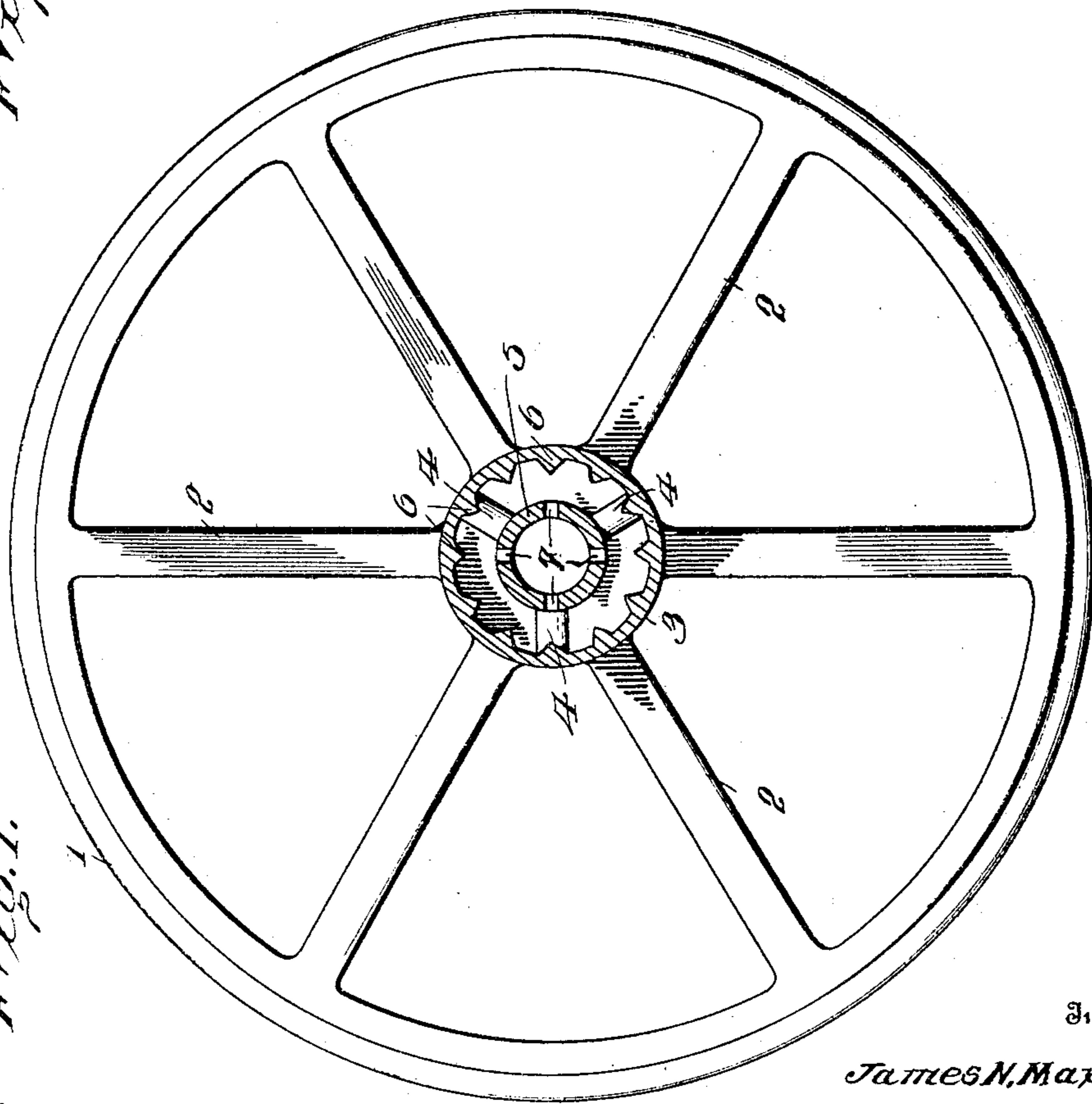


Fig. 1.

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Witnesses

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# UNITED STATES PATENT OFFICE.

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## LUBRICATING DEVICE FOR MINE-CAR WHEELS.

SPECIFICATION forming part of Letters Patent No. 775,114, dated November 15, 1904.

Application filed April 8, 1904. Serial No. 202,169. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES N. MAXWELL, a citizen of the United States, residing at Dawson, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Lubricating Devices for Mine-Car Wheels; and I do declare the following to be a full, clear, and exact description of the invention, 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, and to the figures of reference marked thereon, which form a part of this specification.

The object of my invention is a lubricating device for mine-car wheels so arranged inside the hub that there will be a steady and equal distribution of the oil to the shaft with a minimum amount of waste.

In the accompanying drawings, forming a part of this specification, I have illustrated my invention by two views, in which—

Figure 1 is a view of a mine-car wheel, showing the hub of the same in section, taken on the line 1 1 of Fig. 2, and having my improved lubricating device located therein. Fig. 2 is a sectional view of a mine-car wheel and hub with my improved oiling device attached thereto.

In the drawings the numerals of reference designate like parts throughout both views, in which—

The numeral 1 represents the rim of the car-wheel, and 2 the spokes of the same.

3 is the hub portion of the wheel having an oil-chamber 3' in the inside thereof, which is formed by coring the interior of the hub. Through openings formed in the hub 3 are inserted a plurality of tubes 4 4, which extend into the oil-chamber 3' adjacent to the spindle. These tubes may be forced through the openings or otherwise held in position in the hub and are for the purpose of permitting the introduction of oil to the oil-chamber at any position in which the wheel may be standing. Boxes 5 5 are formed integral with the

hub and extend inwardly to points adjacent the lower ends of the tubes 4 4.

6 6 are longitudinal ribs or flutes formed in the walls of the chamber 3' and designed to gather the oil lying in the lowest part of the oil-chamber and drop the same onto the spindle through the space between the inner ends of boxes 5 5.

7 7 are openings formed through the boxes 5 5 for the purpose of introducing oil to the spindle near the shoulder and outer end of the same.

The oil-chamber 3' may be filled with a lubricant to within a short distance of the inner end of the tube 4 and be prevented from leaking out through the same even when the wheel is revolving, thus reducing the waste of oil to a minimum. The oil lies in the lowest part of the oil-chamber 3' and is gathered by the flutes 6 6, which drop the same through the space between the boxes 5 5, the oil being thus fed to the spindle by this means and through the openings 7 7, formed in the boxes.

Having thus fully shown and described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A lubricating device for a mine-car wheel, comprising a hub provided with a spindle-opening and an interior oil-chamber extending longitudinally therein, there being flutes formed in the oil-chamber and longitudinally disposed therein, a plurality of tubes mounted in and extended through the hub into the oil-chamber, the inner ends thereof being adjacent the spindle-opening, and a pair of boxes formed integral with the hub having oil-openings therein and extending inwardly to points adjacent the inner ends of the tubes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES N. MAXWELL.

Witnesses:

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B. S. FORSYTHE.