

(No Model.)

A. B. COLLETT.
TROLLEY WHEEL.

No. 600,857.

Patented Mar. 22, 1898.

Fig. 1

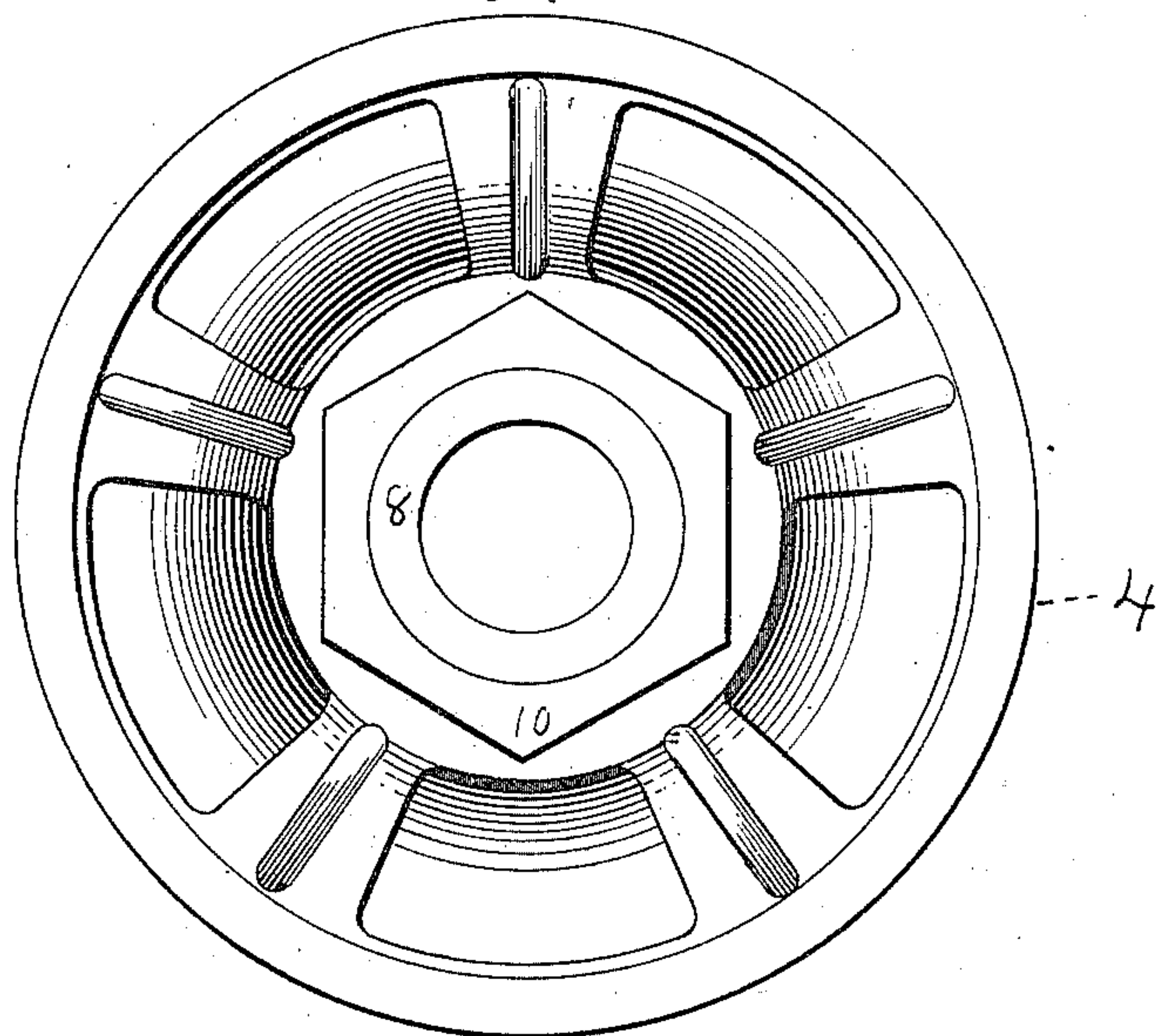
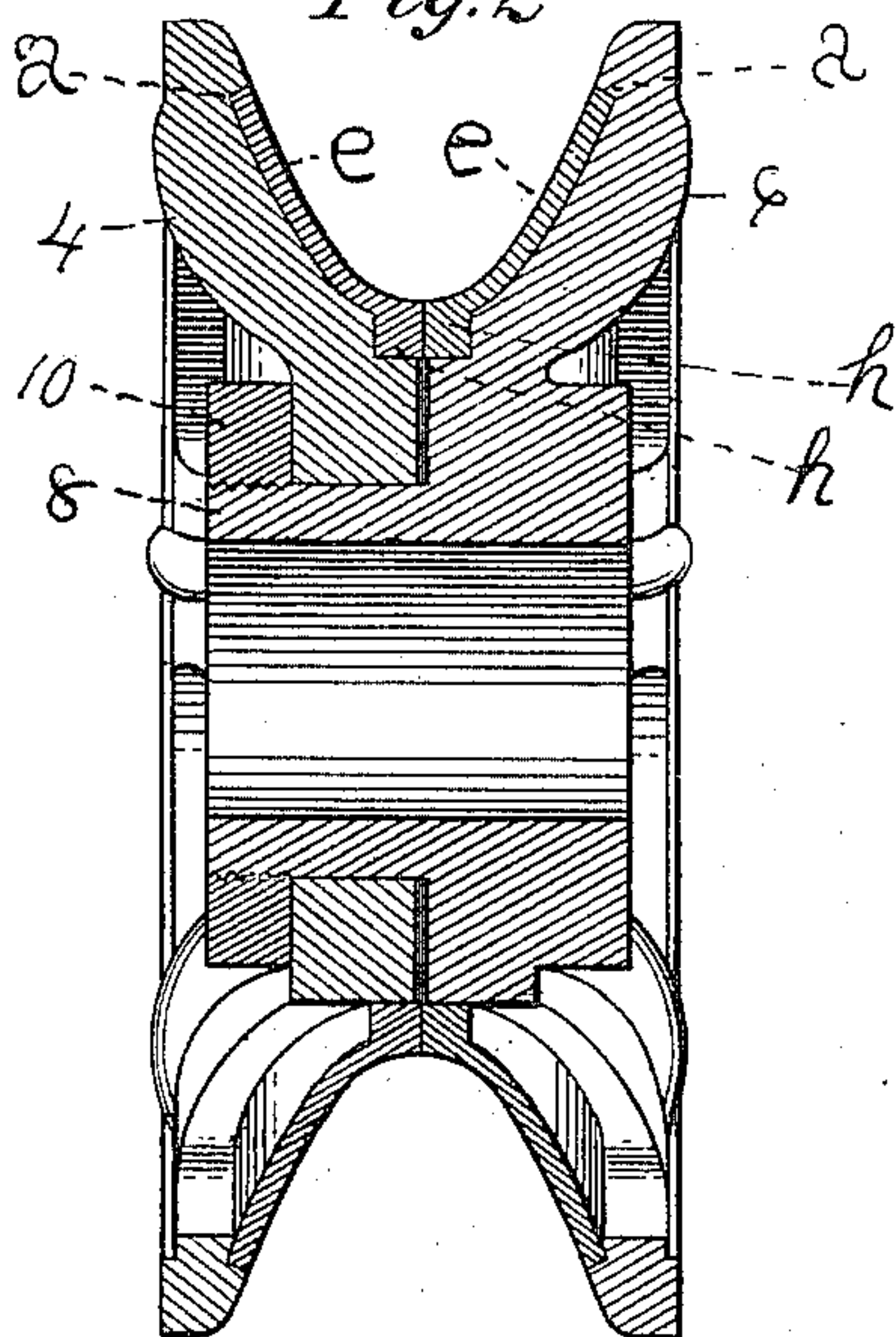


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

AUSTIN B. COLLETT, OF LYNN, MASSACHUSETTS.

TROLLEY-WHEEL.

SPECIFICATION forming part of Letters Patent No. 600,857, dated March 22, 1898.

Application filed May 28, 1896. Serial No. 593,412. (No model.)

To all whom it may concern:

Be it known that I, AUSTIN B. COLLETT, of Lynn, county of Essex, and Commonwealth of Massachusetts, have invented certain Improvements in Trolley-Wheels, of which the following, read in connection with the accompanying drawings, is a specification.

This invention relates to trolley-wheels, and has for its object to provide means whereby the material worn from such wheels in consequence of the use and travel thereof against the trolley or contact wire may be supplied thereto without the necessity of a new wheel-body.

Of the accompanying drawings, Figure 1 shows in side elevation a wheel constructed in accordance with this invention. Fig. 2 shows a central cross-section thereof.

In carrying out this invention, as shown, the wheel comprises a body part consisting of two suitably-formed plates 4 6. Plate 4 has a central opening to receive the journal-sleeve 8. Sleeve 8 is integrant with or suitably fixed in the plate 6. It has an opening therethrough for the stud or shaft on which the wheel may be supported for use. It has screw-threaded engagement with the nut 10, whereby the plates 4 6 may be clamped firmly together. This body part is made to support and carry the contact or tread surfaces of the wheel and is detachably combined therewith. To this end the plates 4 6 are provided each with an inwardly-projecting flange *a*, against which are set the circumferential edge faces of disk plates *e e*.

Plates *e e* constitute the contact or tread surfaces of the wheel. They have central openings whereby they are adapted to be supported on the hub of said wheel-body, as shown, and are preferably formed of sheet metal or rolled material. Plates *e e* may be stamped from sheet-metal blanks and the required contour may be furnished thereto by suitable dies and press operation in the usual modes of manufacture. Plates *e e* are preferably formed with center flanges *h h*, as shown, to the end that when the plates are clamped between the parts 4 6 said surfaces, contacting one with the other, give support to and hold the plates centrally. They are secured to the body part detachably by closing together said parts 4 6 by suitable operation of the nut 10 on sleeve 8. By this operation the plates *e e*, having their centers forced

together, spring outwardly, their circumferential edge faces being thereby set firmly in against the flanges *a*. It will be noticed that the wheel-sections and disk plates are so proportioned that when the said sections clamp the upper ends of the disk plates the portions of the sections upon the sleeve are out of contact. In this manner when the nut is advanced on the threads not only are the lower portions of the wheel-sections more firmly clamped upon the flanges *h*, but the upper portions of the wheel-sections are drawn toward each other, so that the disk plates are firmly clamped between the peripheral shoulders. Plates *e e*, being composed of rolled or sheet metal, give a softer, more uniform, and less abrasive tread or contact surface than cast metal, whereby the wear incident to its travel along the trolley-line is less than what results from a wheel composed of cast metal.

I do not limit my invention to the specific construction shown; but

I claim—

A trolley-wheel or the like comprising a sleeve screw-threaded at one end, a wheel-section as 6 integral with said sleeve, said wheel-section having a peripheral shoulder *a* upon its inner face and a rabbet on said inner face below the peripheral shoulder and open upon its inner side, a second wheel-section as 4 fitting upon the sleeve and provided with a peripheral shoulder and rabbet corresponding with the said members in the first-mentioned wheel-section, a nut fitting upon the threads of the sleeve outside of the second wheel-section whereby the members are clamped, and disk plates upon the inner faces of the wheel-sections, said plates having their upper peripheries fitting against the shoulders upon the wheel-sections and being provided with abutting flanges as *h* entering the channel formed by the rabbets in the wheel-sections, the wheel-sections and disk plates being of such proportions that when the upper portions of the wheel-sections clamp the disk plates, the portions of said sections upon the sleeve are out of contact; substantially as described.

Signed at Lynn this 23d day of May, A. D. 1896.

AUSTIN B. COLLETT.

Witnesses:

C. B. TUTTLE,
A. M. TUTTLE.