

No. 665,677.

Patented Jan. 8, 1901.

E. T. GREENFIELD.

JUNCTION BOX FOR ELECTRICAL CONDUCTORS.

(Application filed Sept. 13, 1900.)

(No Model.)

Fig. 1.

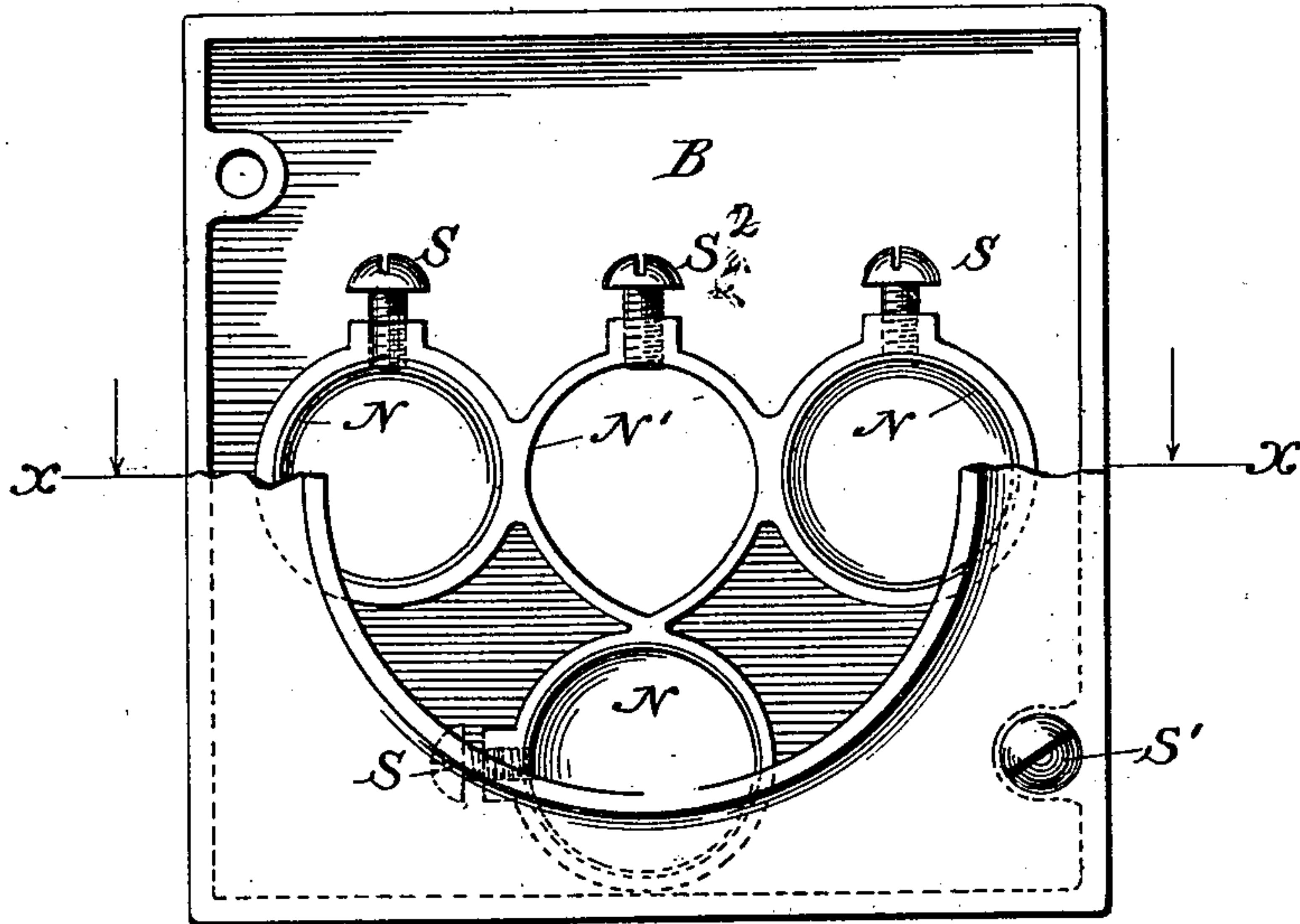


Fig. 2.

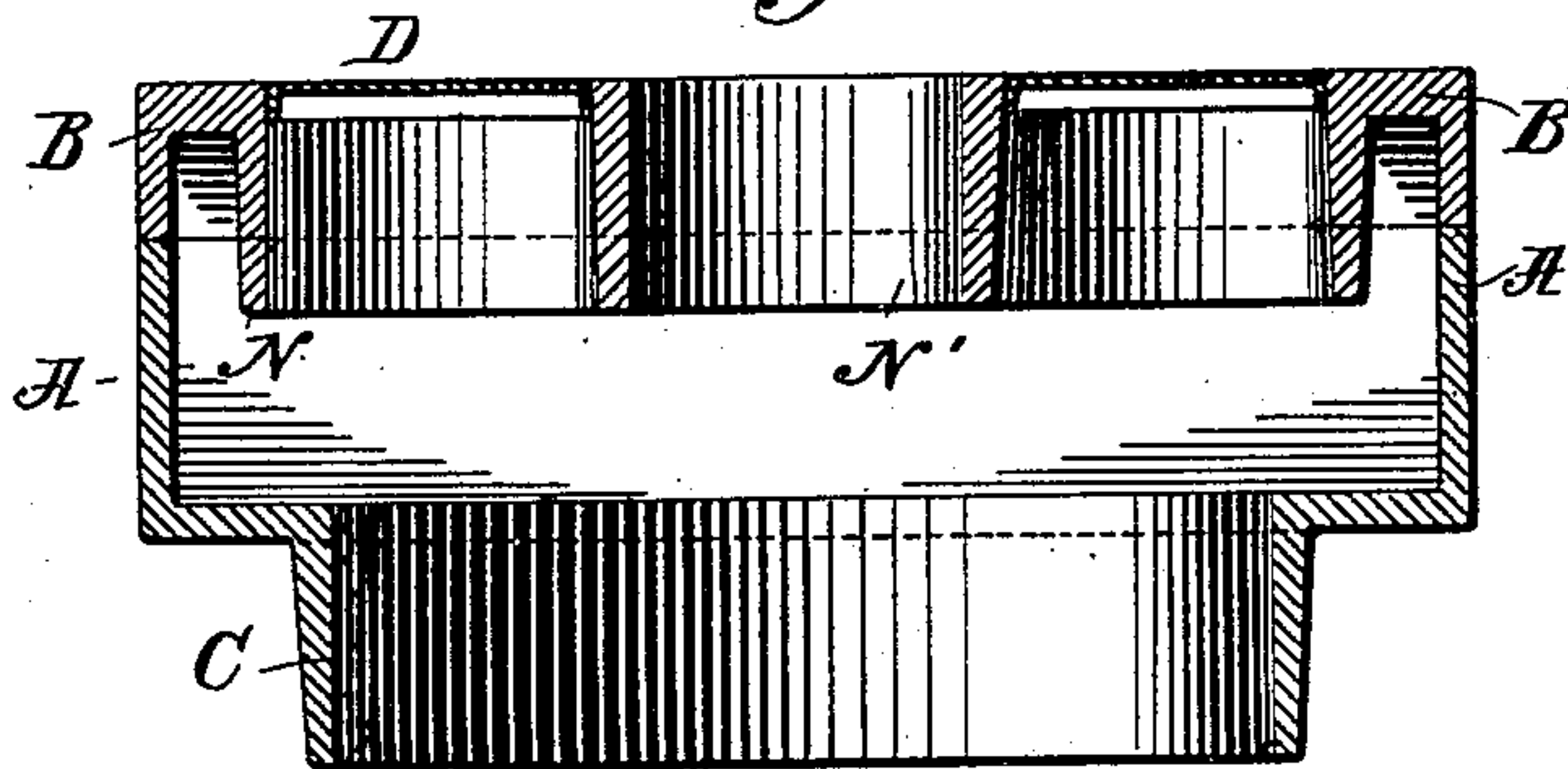
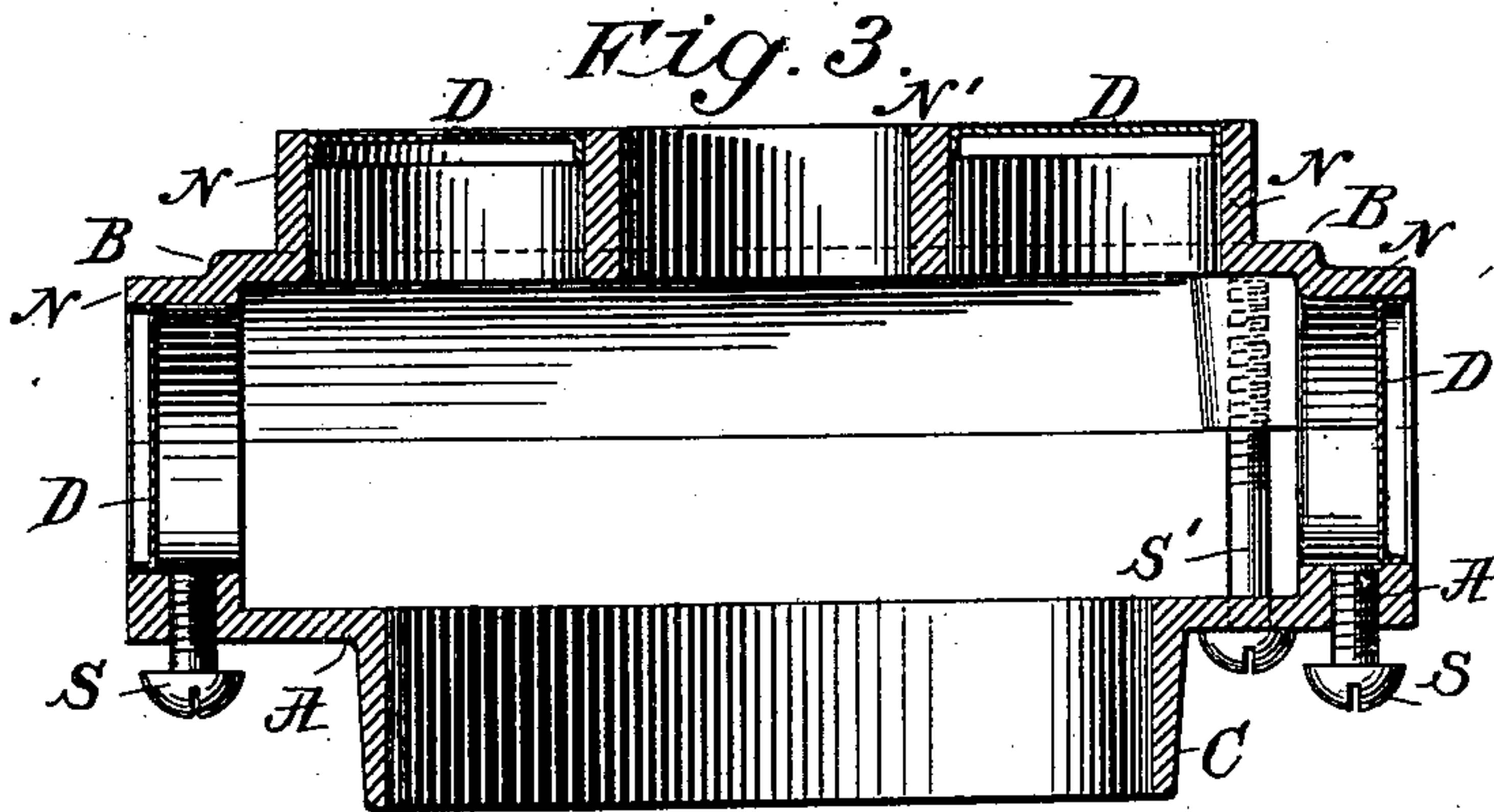


Fig. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## JUNCTION-BOX FOR ELECTRICAL CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 665,677, dated January 8, 1901.

Original application filed July 9, 1900, Serial No. 22,953. Divided and this application filed September 13, 1900. Serial No. 29,975. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN T. GREENFIELD, a citizen of the United States, residing at New York, borough of Manhattan, county and State of New York, have made a new and useful Invention in Junction-Boxes for Electrical Conductors, of which the following is a specification.

My invention is directed particularly to an improvement in junction-boxes for electrical conductors like those disclosed in prior United States Patents No. 642,521, granted to me on the 30th day of January, 1900, and No. 651,484, granted to me on the 12th day of June, 1900, and also like that disclosed in a prior application bearing Serial No. 22,953, filed by me in the United States Patent Office on the 9th day of July, 1900, and of which the present application is a division.

In the before-mentioned application I have described and claimed a metallic junction-box provided with necks and means for securing the ends of conduit tubes or pipes therein, together with detachable disks or cups for closing said necks when not connected with inleading conduit tubes or pipes.

The present improvement has for its objects, first, to adapt boxes like those disclosed in the before-mentioned patents and application for ceiling use where the box is to be suspended from the ceiling by a gas-pipe; second, to particularly adapt boxes of this character for ceiling use where they are to be suspended from the ceiling by gas-pipes of different sizes or diameters; third, to provide a two-part ceiling junction-box with a series of necks cast integral with one of said parts and a fixture-canopy-supporting neck cast integral with the other, together with disks or cups for closing said necks.

Figure 1 of the drawings is a plan view of my improved junction-box, part of the cap or cover being broken away to better illustrate the interior structure; and Fig. 2 is a sectional view taken on the line  $x x$ , Fig. 1, as seen looking thereat from the top toward the bottom of the drawings in the direction of the arrows, Fig. 3 being a similar sectional view of a modified form of this ceiling junction-box provided with lateral inleading half-necks for additional conduit tubes or pipes,

the sustaining-neck of this form being exterior to the box.

Referring now to the drawings in detail for a full and clear understanding of the invention, such as will enable others skilled in the art to construct and use the same, and first to Figs. 1 and 2, A represents the outer and B the inner half of my improved two-part junction-box, made, preferably, of cast metal, the part B being provided with cone-shaped inwardly-extending necks N N N, said necks being for the purpose of receiving the ends of conduit tubes or pipes. N' is a centrally-located neck, the function of which is to receive the end of a suspended gas-pipe, S S S being set-screws adapted to permanently secure the ends of the conduit tubes or pipes in place when located in position, a similar set-screw S<sup>2</sup> being adapted to secure the entire box to the ceiling by setting it against the inleading end of a gas-pipe. It will be noticed that the neck N' for the sustaining gas-pipe is elliptical or approximately wedge-shaped on the side opposite the set-screw S<sup>2</sup>, this being for the purpose of enabling one to secure the boxes to gas pipes or tubes of different sizes.

D D D are metallic disks or cups, which when put in position as shown in Figs. 2 and 3 effectually close all of the inlets of the necks N N which are not in use. This feature constitutes the essential element of invention disclosed in the before-mentioned application, and no claim, therefore, is made to it in the present application.

Integral with the outer half A of the box is a supporting-neck C for the fixture-canopy. In Fig. 3 of the drawings I have illustrated a form of ceiling junction-box coming within the terms of my invention, in which the necks N N N N', integral with the half-necks, are exterior thereto, additional lateral necks being formed between the two halves of the box in the same manner as is disclosed in the before-mentioned application, the two parts A and B, as are the corresponding parts illustrated in Figs. 1 and 2, being held together by screws S' S'.

I do not limit my invention especially to the structures shown in the drawings and hereinbefore described, as I believe I am



broadly entitled to claim a junction-box provided with a sustaining-inlet for a gas-pipe so constructed as to adapt it to be sustained upon different-sized gas-pipes, and my claims  
5 are generic as to this feature.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A junction-box provided with an inlet  
10 for securing it to a gas-pipe, the same being so constructed as to adapt it to be secured to different-sized gas-pipes, substantially as described.

2. A junction-box provided with an inlet  
15 for securing it to a gas-pipe; in combination with means for effecting a union between the two, the inlet being so constructed as to adapt the box to be sustained by different-sized gas-pipes, substantially as described.

20 3. A two-part ceiling junction-box provided with a series of necks cast integral with one of said parts and a fixture-canopy-support-

ing neck cast integral with the other; in combination with detachable disks or cups adapted to close said necks, substantially as described. 25

4. A two-part ceiling junction-box provided with a series of necks cast integral therewith, one of said necks being a supporting-neck and provided with means for securing it to the  
30 end of a gas-pipe, the inner surface of said supporting-neck opposite the supporting means being substantially elliptical in form, the other portion of said box being provided with a fixture-canopy-supporting neck, substan- 35 tially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWIN T. GREENFIELD.

Witnesses:

WILLIAM T. RUETE,  
M. F. KEATING.