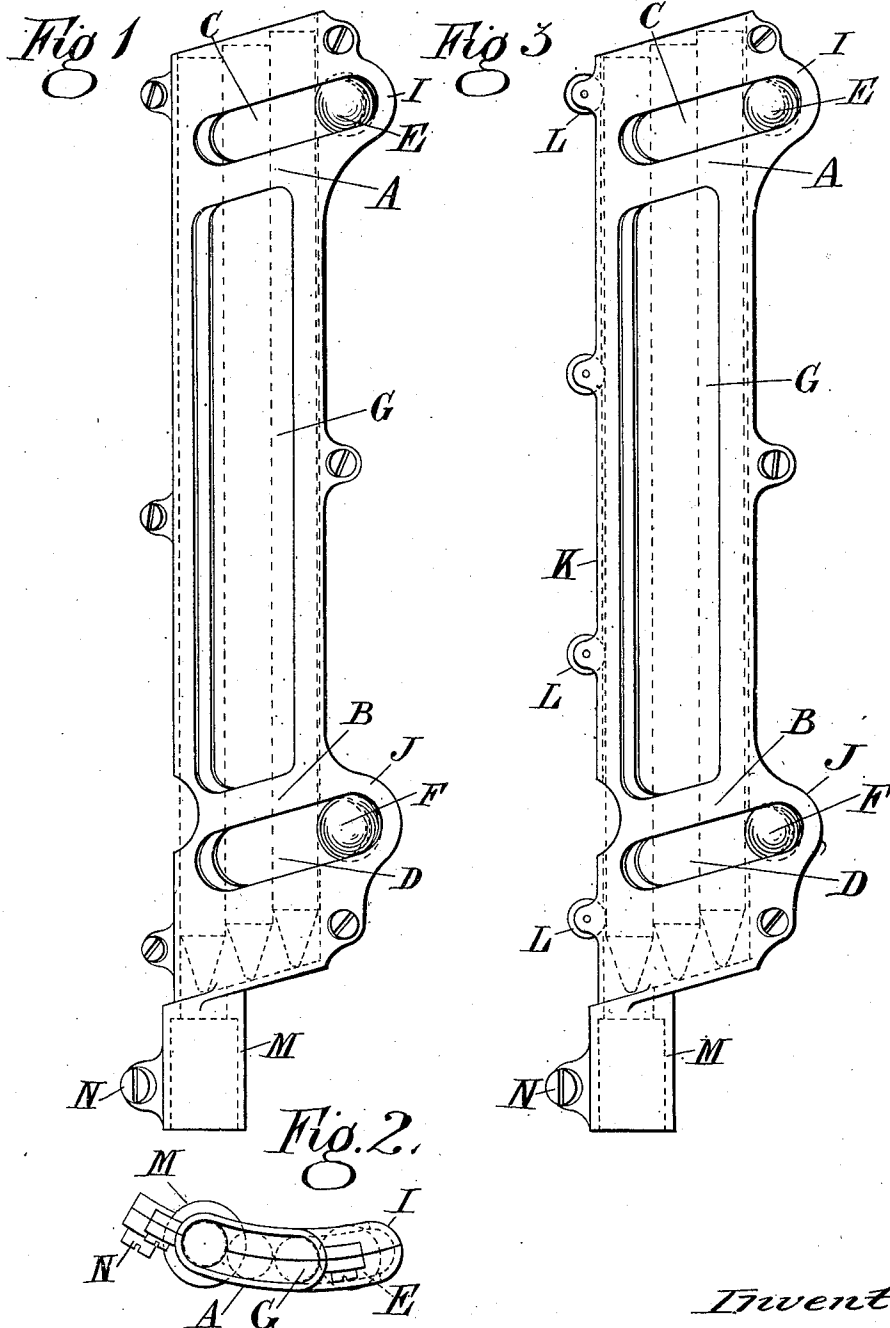


L. C. H. MENSING.
ELECTRIC ARC LAMP.
APPLICATION FILED OCT. 28, 1910.

996,501.

Patented June 27, 1911.

2 SHEETS—SHEET 1.



Witnesses:

W. B. Keeler
W. B. Keeler

Inventor

Louis C. H. Mensing

by

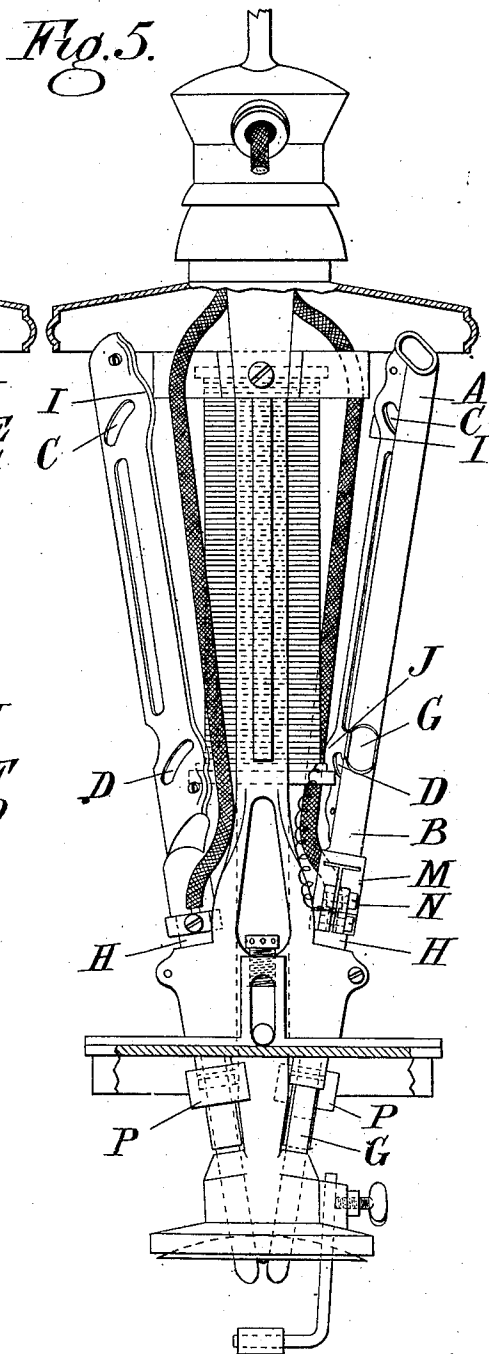
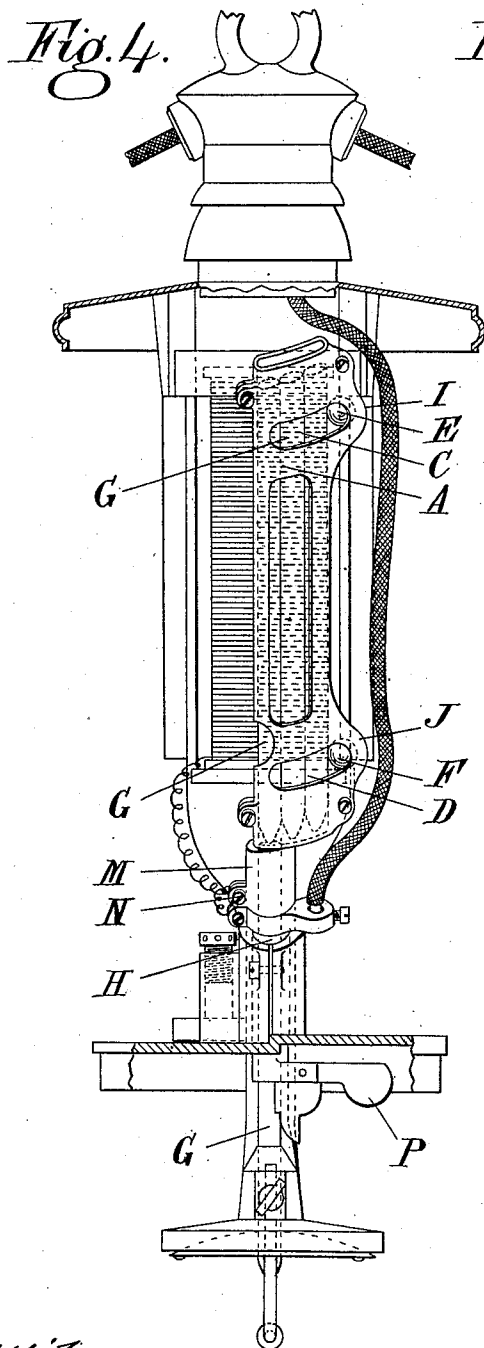
James L. Norris
Atty

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2 SHEETS-SHEET 2.



Witnesses:

W. B. Kaelin
Chas. Kessler

Inventor
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by *James L. Morris, Jr.*
att'y

UNITED STATES PATENT OFFICE.

LOUIS CARL HENRY MENSING, OF EDINBURGH, SCOTLAND.

ELECTRIC-ARC LAMP.

996,501.

Specification of Letters Patent. Patented June 27, 1911.

Application filed October 28, 1910. Serial No. 589,550.

To all whom it may concern:

Be it known that I, LOUIS CARL HENRY MENSING, a subject of the King of Great Britain, residing at Edinburgh, Scotland, have invented certain new and useful Improvements in Electric-Arc Lamps, of which the following is a specification.

This invention relates to that class of electric arc lamps set forth in my British Patent No. 3243 of 1904, and in my corresponding U. S. Patent No. 881,015, granted March 3, 1908.

The present invention consists of an improvement in the magazines which hold the carbons, the object being to insure the carbons being more positively fed without fear of their becoming held or jammed, thus adding more to the efficiency in the working of the lamp.

My invention will be clearly understood from the following description aided by the accompanying drawings in which—

Figure 1 is an elevation of my improved construction of case or magazine for carrying the carbons which are shown in dotted lines. Fig. 2 is a plan of Fig. 1. Fig. 3 is a view similar to Fig. 1 but with rollers at one edge for easier self feeding of the carbons which are shown in dotted lines. Fig. 4 is an elevation of the working parts of an electric arc lamp showing one of my magazines in position. Fig. 5 is a view of the lamp parts at right angles to Fig. 4.

For the purpose of this invention I construct in the top and bottom angled cross members A, B, of each magazine a smooth surfaced track C, D, in each of which I place a ball E, F, somewhat weighty in character, the balls E, F acting against the carbons G and pressing them uniformly toward the edge of the magazine next to the guide or feed tube H of the lamp, the degree of pressure not being of such a character as to cause any jamming or holding of the carbons G together but just sufficient to keep the carbons G in their proper position with relation to each other and allow of a free falling or sliding of the end carbon down the tube for feed purposes.

The tracks C, D, for holding the balls E, F, may be formed from cut away portions in each wall of the angled cross members A, B, of the magazine, and the edge of the maga-

zine may be bulged or widened as at I, J, at the upper edges of the tracks C, D, to continue said tracks and allow of a full supply of carbons being in each magazine. The edge K of the magazine next the feed or guide tube may be provided with a series of rollers L, as at Fig. 3, against which the end carbon G can move for more easier feeding, but if the interior of the magazine is made perfectly smooth these rollers are not required, as the carbons G move together under the action of the balls E, F, and the end one lowers to feed quite easily.

Each magazine is provided with a short split socket M at its lower end by which it can be secured to the feed or guide tube H of the lamp, the split socket M being tightened by a screw N as will be well understood.

The balls E, F, in each magazine may be of the same or of different sizes and weights.

The construction of the lamp proper is the same as in my prior patents above identified except that balance weights P are employed instead of spring contacts to act as brakes to the carbons, and a one sided stirrup instead of a double stirrup with or without a china or snake stone saddle for evenly striking the arc.

What I do claim as my invention and desire to secure by Letters Patent is:—

1. A magazine for containing arc lamp carbons provided with a feed tube for said carbons located at its lower end at the foot of one of its vertical edges, and with a track inclined downwardly toward said edge; and a ball arranged to travel along said track for pressing the carbons toward said edge in position to feed through said tube.

2. A magazine for containing arc lamp carbons provided at its upper and lower ends with tracks inclined downwardly toward one of its vertical edges, and with a feed tube located at the foot of said edge; and a ball arranged to travel along each of said tracks for pressing the carbons uniformly toward said edge in position to feed through said tube.

3. A magazine for containing arc lamp carbons comprising a pair of vertical side members arranged in spaced parallel relation to each other and connected along one edge, said members having oppositely-dis-

posed portions thereof cut away to produce
a track inclined downwardly toward said
edge; a feed tube located at the foot of said
edge; and a ball arranged to travel along
5 said track for pressing the carbons toward
said edge in position to feed through said
tube.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

LOUIS CARL HENRY MENSING.

Witnesses:

RICHARD CORE GARDNER,
PERCY E. MATTOCKS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
