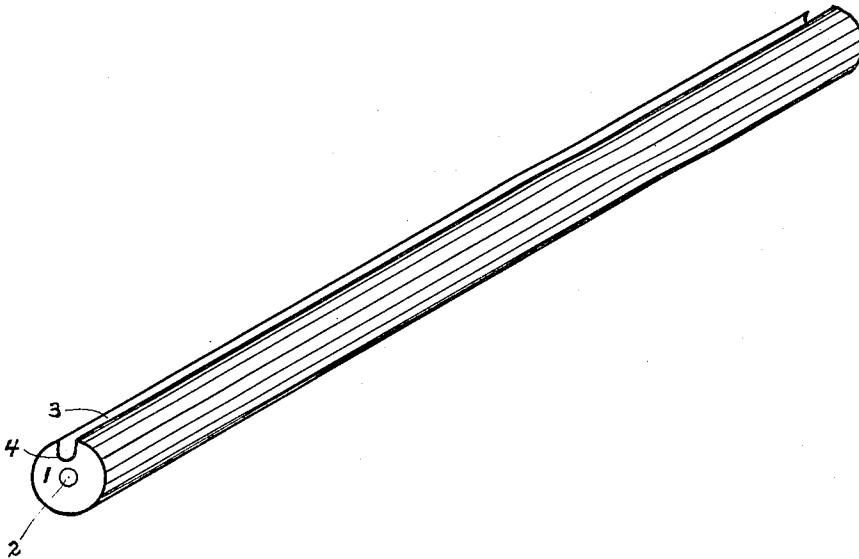


J. F. KERLIN.  
PROJECTOR CARBON.  
APPLICATION FILED JAN. 8, 1912.

1,065,141.

Patented June 17, 1913.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOHN F. KERLIN, OF LAKEWOOD, OHIO, ASSIGNOR TO THE NATIONAL CARBON CO., OF CLEVELAND, OHIO, A CORPORATION OF NEW JERSEY.

PROJECTOR-CARBON.

1,065,141.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed January 8, 1912. Serial No. 670,077.

*To all whom it may concern:*

Be it known that I, JOHN F. KERLIN, a resident of Lakewood, in the county of Cuyahoga, in the State of Ohio, have invented new and useful Improvements in Projector-Carbons, of which the following is a clear and exact description.

This invention relates to carbons for electric lamps.

As is well known the arc in the ordinary light carbon or cored carbon does not remain stationary in one place, but moves around the end of the carbon. In ordinary street lighting this feature is not very objectionable, but in moving picture apparatus it is important to hold the arc steady in order to produce uniform projections. My invention is therefore particularly adapted to projector carbons for moving picture machines although it can be used to advantage in any arc light.

I have found that if a furrow or small groove is made lengthwise of the carbon that the arc will remain approximately stationary. If this groove is made V shaped the carbon quite often cracks through to the core when it is baked in the furnace. To overcome this difficulty I make the

groove with a rounded bottom so that there is no sharp corner to start a crack.

In the drawing the single figure shows a cored carbon 1 having a core 2, filled with arc sustaining material. Throughout the length of this carbon is formed a groove 3, having a rounded bottom 4.

Carbons made in accordance with my invention maintain a steady arc of unchanging position, and will not crack when baked in the electric furnace.

While I have shown my improvement as being applied to a cored carbon it is not limited to this type as it could be used with solid carbons or with other types.

Having described my invention, what I claim is:

An arc light carbon having a core therein and a groove or furrow in the carbon extending parallel to the core, said groove or furrow having a rounded bottom whereby the carbon will not crack when baked.

In testimony whereof I have hereunto signed my name.

JOHN F. KERLIN.

Witnesses:

A. G. SUMMERELL,  
A. B. PYKE.