

O. SERPEK.

REVOLVING ELECTRICAL FURNACE WITH RESISTANCES ARRANGED DIAMETRICALLY.

APPLICATION FILED JULY 23, 1912.

1,057,286.

Patented Mar. 25, 1913.

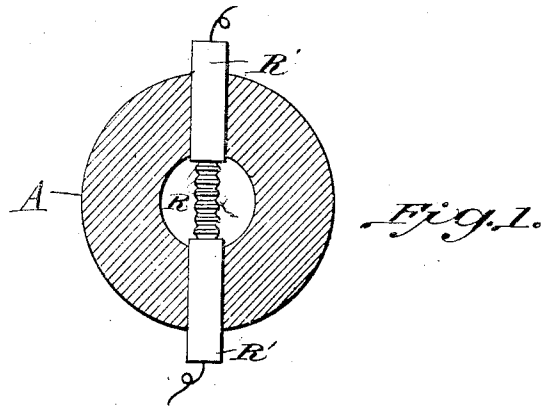
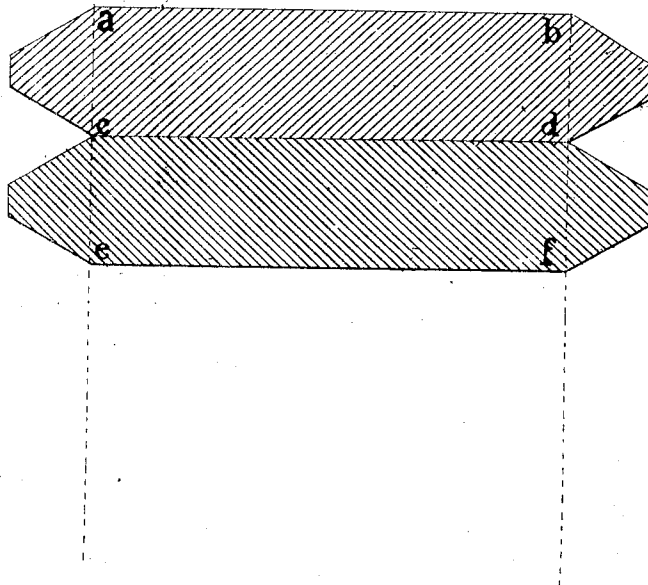


Fig. 1.

Fig. 2.



WITNESSES

H. L. Allen
M. E. Kutz

INVENTOR

Ottokar Serpek
by Howson and Howson
Attys

UNITED STATES PATENT OFFICE.

OTTOKAR SERPEK, OF PARIS, FRANCE, ASSIGNOR TO SOCIÉTÉ GÉNÉRALE DES
NITRURES, OF PARIS, FRANCE.

REVOLVING ELECTRICAL FURNACE WITH RESISTANCES ARRANGED DIAMETRICALLY.

1,057,286.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed July 23, 1912. Serial No. 711,092.

To all whom it may concern:

Be it known that I, OTTOKAR SERPEK, a subject of the Austro-Hungarian Emperor, residing at 12 Rue Roquepine, Paris, France, have invented new and useful Improvements in Revolving Electrical Furnaces with Resistances Arranged Diametrically, of which the following is a specification.

This invention relates to revolving furnaces intended chiefly for the manufacture of aluminium nitrid, and having diametrical resistances, such, for example, as described in my U. S. Patent No. 1,044,928, in which the resistance is set forth as consisting of a number of sections pressed one against another or agglomerated together.

The object of my invention is to so construct the resistances as to maintain their electrical resistance constant in spite of the wear on their edges.

In the accompanying drawing, Figure 1 is a view illustrating merely by way of example, a cross-section of a resistance furnace in which my invention may be employed, and Fig. 2 is a sectional view through a number of my improved resistance sections.

In Fig. 1, A represents a rotary tubular furnace adapted to receive the material at one end and discharge it at the other, as the furnace rotates. At suitable intervals in the

length of the furnace chamber are transverse resistances which may consist of joined sections R in the interior of the chamber and end sections R' passing through the insulating walls of the furnace for connection with the electric circuit outside the furnace. The invention consists in giving a bevel or feather edge to the periphery of each of these sections R, R'. The part which is active as regards resistance is that comprised within the cylinder indicated by the dotted lines *a b c d e f* . . . This arrangement allows of maintaining a constant resistance in spite of the wear of the edges of the sections, until this wear affects the whole of the beveled portion.

I claim as my invention:

A revolving electric furnace, having resistances extending across the interior of the furnace and electrical connections outside of the furnace, the diametrical resistances being in sections with beveled edges, as and for the purpose set forth.

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

OTTOKAR SERPEK.

Witnesses:

EUGÈNE LEGRIS,
FERNAND GUIAULT.