

# UNITED STATES PATENT OFFICE.

ADOLF GENTZSCH, OF VIENNA, AUSTRIA-HUNGARY.

## INSULATING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 517,452, dated April 3, 1894.

Application filed October 7, 1893. Serial No. 487,477. (No specimens.)

*To all whom it may concern:*

Be it known that I, ADOLF GENTZSCH, a subject of the Emperor of Austria-Hungary, residing at Vienna, in the Province of Austria and Empire of Austria-Hungary, have invented certain new and useful Improvements in an Insulating Compound for Electrical Purposes, of which the following is a specification.

Attempts have heretofore been made to extract insulating substances for electrical purposes from mineral matters but with only little success; therefore it has always been necessary to have recourse to vegetable substances whenever it was desired to produce a good and lasting insulating material with high insulating power.

It has been well known that it would be possible to create a useful insulating material if it were possible to oxidize the mineral oils. It is well known also that natural oxidized mineral oils exist as for instance; ozokerite, asphalt, amber, idrialite, hatchettine, &c., but these are brittle and hygroscopic and are possessed of almost no insulating power whatever.

The present process refers to the manufacture of an insulating material from the substances mentioned but all elements that could injure their insulating quality are removed in the manner as will be described later so that I obtain an insulating mass which not only equals in quality the oxidized vegetable oils but is greatly superior to the same.

In carrying out my method the fossile resins, ozokerite, asphalt and amber are submitted to a kind of distillation. This is effected in a boiler or preferably in a distilling still; by heating each of the above named bodies or a mixture of the same to drive off the water, the light and heavy oils and the gas. The heating of the mass is continued until no escaping of gas or vapors or oils can be observed, and the remaining mass is then allowed to cool off. In this state it presents a buttery appearance and it possesses a malleable consistency and it can be used either alone or mixed with other substances for insulating cables and connecting couplings.

For using a mixture of the above named fossile resins the following proportions can be recommended as an example: about fifty parts ozokerite, about forty-five parts amber, about five parts asphalt.

I claim—

An insulating compound consisting of the extract from fossil resins as ozokerite, asphalt and amber, in the proportions set forth, from which the gas, vapors and oils have been removed, substantially as described.

In witness whereof I hereunto set my hand in presence of two witnesses.

ADOLF GENTZSCH.

Witnesses:

F. BELMONT,  
VICTOR TISDELEY.