

UNITED STATES PATENT OFFICE.

PETER SWEENEY, OF NEW YORK, N. Y., ASSIGNOR TO BENJAMIN COLLINS,
OF SAME PLACE.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. **191,491**, dated May 29, 1877; application filed
November 25, 1876.

To all whom it may concern :

Be it known that I, PETER SWEENEY, of the city, county, and State of New York, have invented a new and Improved Lubricating Compound, which invention is fully set forth in the following specification.

This invention relates to a lubricating compound which is made of graphite, mercury, and collodion.

In carrying out my invention I take one pound of pyroxyline, and dissolve the same in about one gallon of ether and alcohol, or in any other equivalent solvent which will produce a solution of like consistency. To this solution I add about eight pounds of graphite and one pound of mercury, and then I place the mixture into a vessel which can be closed airtight, and which contains a suitable agitator for the purpose of stirring the above-named ingredients together until a homogeneous mass is produced. During this operation it is essential that the atmospheric air shall be excluded. After the ingredients have been stirred together for a sufficient length of time, which must be determined by experience, I remove the mass from the mixing-vessel, and subject the same to pressure between pads of felt, sponge, or other absorbent material, in suitable press-boxes, from which the atmospheric air is excluded. By this pressing operation, which is continued for three or four

hours, the surplus moisture contained in the compound is absorbed by the press-pads, and, after having been removed from the press-boxes, the compound is left to harden, which requires a term of several weeks.

If the compound is to be used as a lining for journal-boxes, or for other definite purposes, it may be pressed at once into the required shape; but if it is to be employed as a filling material for cells or recesses in the bearing-surfaces of journal-boxes or of pulleys, it may be pressed into cakes of suitable thickness, which are afterward cut up in pieces of the required shape.

I do not claim in this application a compound made of graphite and collodion, such being the subject-matter of a separate application.

What I claim as new, and desire to secure by Letters Patent, is—

A lubricating compound made of graphite, collodion, and mercury, mixed together in about the proportion and substantially in the manner herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 22d day of November, 1876.

PETER SWEENEY. [L. S.]

Witnesses:

W. HAUFF,
E. F. KASTENHÜBER.