

UNITED STATES PATENT OFFICE.

GEORGE W. SWEENEY, OF NEW YORK, N. Y.

IMPROVEMENT IN LUBRICATING COMPOUNDS.

Specification forming part of Letters Patent No. **191,488**, dated May 29, 1877; application filed November 25, 1876.

To all whom it may concern:

Be it known that I, GEORGE W. 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, collodion, and camphor.

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. I then take two pounds of camphor, and, after having broken the same up into fine particles, I add thereto eight pounds of graphite, and this mixture is finally added to the above-named solution of pyroxyline, the whole being placed 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 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 several hours, the surplus moist-

ure 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 purpose, 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 into pieces of the required shape.

By the action of the camphor my compound retains a certain pliability, which is desirable in certain circumstances; but, if desired, the hardness of my compound may be increased by the addition of a small quantity of castor-oil, cotton-seed or linseed oil.

I do not claim as my invention a compound made of graphite and collodion alone; but

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

A lubricating compound made of graphite, collodion, and camphor, mixed together in about the proportion and substantially in the manner herein specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 16th day of November, 1876.

GEORGE W. SWEENEY. [L. S.]

Witnesses:

E. F. KASTENHUBER,
JAMES L. NORRIS.