

UNITED STATES PATENT OFFICE.

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COMPOSITION OF MATTER FOR COOLING JOURNALS AND SHAFTS OF ENGINES, &c.

1,003,983.

Specification of Letters Patent.

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No Drawing.

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To all whom it may concern:

Be it known that I, GEORGE M. CALLAHAN, a citizen of the United States, residing at Jersey Shore, in the county of Lycoming and State of Pennsylvania, have invented a new and useful Composition of Matter for Cooling Journals and Shafts of Engines, &c., of which the following is a specification.

This invention relates to a cooling agent for journal boxes, machine shafts, and the like.

The object of the invention is to provide a compound possessing the property named, which in use will operate effectively, but without destructive cutting action, to smooth down and polish the parts with which it is brought into contact, and by removing the striæ which are present in the shaft, box or the like, to eliminate the cause of friction, and thus the danger of heating.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel cooling agent for journal boxes and the like as will be hereinafter fully described and claimed.

The compound consists of the following ingredients in proportion as stated:

Emery dust	6 pounds.
Graphite	24 "
Soap	35 "
Tallow	35 "

These substances are thoroughly mixed and are molded into sticks or cakes of any desired size, and in use are placed between the box and journal or shaft of the car or piece of machinery.

The function performed by the different ingredients is as follows: The emery acts as a gentle abradant to cut and smooth down any striæ in the shaft or box. The soap constitutes the vehicle for the emery and prevents the particles thereof from agglomerating, thus to insure an even operation. The graphite acts as a non-meltable or non-fluid lubricator, which remains the same under all conditions, and the value of its lubricating qualities are well known. The tallow acts as a solid but readily meltable lubricant which will, under the heat ordinarily generated by the rotation of an axle or a shaft, become fluid, and thus in condition to secure the function for which it is desired.

It is to be understood, of course, that the composition is only useful as a temporary expedient, as after the journal or journal-box has become perfectly smooth, its further use would be deleterious.

What I claim is:

1. A cooling agent for journal boxes and the like consisting of a gentle abradant, a vehicle therefor, a non-meltable amorphous lubricant, and a solid oleaginous lubricant.
2. A cooling agent for journal boxes and the like consisting of emery dust, graphite, soap, and tallow.
3. A cooling agent for journal boxes and the like consisting of emery dust, six pounds; graphite, twenty-four pounds; soap, thirty-five pounds; and tallow, thirty-five pounds.

GEORGE M. CALLAHAN.

Witnesses:

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