No. 764,849. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

GEORGE ANSON HUBBARD, OF CHICAGO, ILLINOIS.

CORE COMPOUND.

SPECIFICATION forming part of Letters Patent No. 764,849, dated July 12, 1904.

Application filed September 29, 1903. Serial No. 175,092. (No specimens.)

To all whom it may concern:

Be it known that I, GEORGE ANSON HUBBARD, a citizen of the United States, residing at Chicago, in the county of Cook, in the State of Illinois, have invented a new and useful Composition of Materials adapted to form an Improved Compound for Making Foundry-Cores, of which the following is a specification.

This improved compound is composed of the following materials: hydrous calcium sulfate, commonly known as "gypsum" or "land-plaster," stucco, flour formed from wheat, rye, or other suitable grain, starch, and finely-comminuted vegetable fiber, commonly known as "sawdust," "wood-dust," "pulverized wood," "wood-pulp," "wood-flour," or the like. These ingredients are preferably thoroughly mixed in a dry or powdered state to form the compound for making the cores.

It is well known that a core-forming material which will conform to all of the necessary requirements desirable in such material should have as light weight as is consistent for the purposes desired. The addition of the sawdust in this compound greatly increases the bulk in proportion to the weight, and I have found that this makes an excellent product, fulfilling all of the necessary requirements for making a good core.

In casting different metals or different qualities of iron I have found that it is essential to make this compound in greatly-varying proportions, insomuch so that any single definite proportion would not sufficiently state my conception of this invention. It is also apparent that changes may be made in the particular ingredients used without departing from the spirit of this invention.

I am aware that some of these substances have heretofore been used in making cores, and I do not claim the use of such separately; but

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

A composition of matter of the character herein set forth, consisting of hydrous calcium sulfate, stucco, flour, starch, and finely-comminuted vegetable fiber or sawdust.

GEORGE ANSON HUBBARD.

Witnesses:
CATHERINE A. KANE,
JAMES N. DOHERTY.