

UNITED STATES PATENT OFFICE.

EMIL HELBING, OF WANDSBECK-HAMBURG, GERMANY.

PROCESS OF MANUFACTURING PEAT BRIQUETS.

SPECIFICATION forming part of Letters Patent No. 700,421, dated May 20, 1902.

Application filed December 2, 1901. Serial No. 84,359. (No specimens.)

To all whom it may concern:

Be it known that I, EMIL HELBING, a subject of the German Emperor, and a resident of Wandsbeck-Hamburg, Germany, have invented a certain new and useful Process of Manufacture of Peat Briquets, of which the following is a specification.

This invention has reference to the manufacture of peat briquets or blocks intended to serve as fuel and in which peat is the chief constituent; and the objects of my invention are to enable peat briquets to be made more cheaply than hitherto, which briquets, besides being readily combustible, will continue to glow and give off great heat until the carbon contained in them has been practically completely consumed, and to obviate a defect, hereinafter referred to, appertaining to all process of manufacture of peat briquets heretofore.

In making peat briquets the peat sods have hitherto been first dried, either by exposure to the air or by heating them or even carbonizing them, and the dried or carbonized peat has then had mixed or incorporated with it some inflammable material and also some binding material, the mass being then pressed in suitable molds. This process has the defect that the drying or the carbonizing of the peat sods causes a deterioration or even the abstraction or destruction of the inflammable and binding properties possessed by the natural peat, which defect is obviated by my invention.

In my improved process of manufacture of peat briquets I take the peat in its natural and more or less wet state and incorporate with it milk of lime and oxid of manganese, which latter may, if desired, be replaced by any other oxygen-generating material, and I press the resultant mass in molds, so as to form briquets, which I then dry, when they will be ready to be used as fuel. If the peat be of poor quality, lacking in carbon, the composition would be improved in its heat-giving quality by adding or incorporating with it fats, oils, waste containing such, resin, bitumen, tar products, pitch, coal-dust, or other more or less easily-inflammable material or materials, the proportions of which may be fixed empirically.

Having now described my invention, what I claim as new, and desire to protect by Letters Patent, is—

A process of manufacturing peat briquets for fuel, which consists in incorporating milk of lime and oxid of manganese with peat while the latter is in its natural state, pressing and molding the compound into briquets, substantially as described.

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

EMIL HELBING.

Witnesses:

E. H. L. MUMMENHOFF,
OTTO W. HELLMRICH.