

UNITED STATES PATENT OFFICE.

EDMUND BOUSEK, OF WIENER NEUSTADT, AUSTRIA-HUNGARY, EXECUTOR OF CHRISTIAN ESSER, DECEASED; ASSIGNOR, BY MESNE ASSIGNMENTS, TO EDWARD P. METCALF, OF PROVIDENCE, RHODE ISLAND, AND ADOLPH LOEWENTHAL AND CLIFFORD E. DUNN, OF NEW YORK, N. Y., TRUSTEES.

PAPER OR BOARD.

No. 867,471.

Specification of Letters Patent.

Patented Oct. 1, 1907.

Original application filed December 20, 1905, Serial No. 292,661. Divided and this application filed March 17, 1906.
Serial No. 306,607.

To all whom it may concern:

Be it known that CHRISTIAN ESSER, deceased, in his lifetime a resident of Wiener Neustadt, Austria-Hungary, and a subject of the Emperor of Austria-Hungary, previous to his death had invented certain new and useful Improvements in Paper or Board, of which I, EDMUND BOUSEK, a resident of Wiener Neustadt, Austria-Hungary, and a subject of the Emperor of Austria-Hungary, as executor of the last will and testament of the said CHRISTIAN ESSER, present the following full, clear, and exact specification.

This application is a division of a former application filed by me December 20, 1905, Serial No. 292,661, for paper or board.

15 This invention relates to a process of forming paper or board and the like from half-stuff containing peat fibers and the natural gelatinous matter of the peat.

The half-stuff containing peat fibers and the gelatinous matter of the peat may be produced in any desired manner, as the production thereof does not form part of the present invention. For instance, half-stuff produced in the manner described and claimed in United States Patent No. 836,069, granted November 13, 1906, on an application of Christian Esser, may be used, although the present invention is not to be confined to the use of the particular half-stuff of the above patent, but may be employed with half-stuff containing peat fibers and the natural gelatinous matter of the peat, however produced.

30 The present process of producing paper or board and the like from half-stuff containing peat fibers and gelatinous matter is designed to utilize not only the peat fibers, but also a large amount of the natural gelatinous matter of the peat, and in the finished product of the process the fibers give strength and body to the product, while comparatively large quantities of the gelatinous matter are present, adhering to the fibers and binding them together.

In carrying out the process, the half-stuff containing the peat fibers and gelatinous matter is diluted with sufficient water or the like to float it, and is passed to the machine chest. Both the peat fibers and a comparatively large quantity of the natural gelatinous matter of the peat are then run into paper or board and the like.

If desired, the half-stuff containing the peat fibers and natural gelatinous matter may have mixed therewith a small percentage of sulfid or other hard stock.

The board produced according to the present process possesses the desirable qualities of strength and durability, and, in addition, is moth and vermin proof; furthermore, it is damp repellent, even if unsized, and is also a non-conductor of electricity, and an excellent insulating material.

The foregoing method of producing paper or board and the like from half-stuff containing peat fibers and the natural gelatinous matter of the peat by floating the fibers and gelatinous matter of the peat, and then running both the fibers and the gelatinous matter into paper or board and the like, may be varied widely providing the consideration of maintaining a comparatively large quantity of gelatinous matter in connection with the peat fibers be kept in view.

What I claim and desire to secure by Letters Patent is:

A process of forming paper or board and the like from half stuff containing peat fibers and the natural gelatinous matter of the peat, which process consists in floating the intimately mixed fibers and gelatinous matter of the half stuff and then running said fibers and gelatinous matter into paper or board and the like.

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

EDMUND BOUSEK,

Executor of the estate of Christian Esser, deceased.

Witnesses:

ANDERS BLÜCK,

ALBERTO S. HOGUE.