

# UNITED STATES PATENT OFFICE.

ALOYSE CHEVALIER AUER DE WELSBACK, OF VIENNA, AUSTRIA.

IMPROVEMENT IN THE MANUFACTURE OF PAPER, &c., FROM THE HUSKS OF INDIAN CORN.

Specification forming part of Letters Patent No. 38,220, dated April 21, 1863.

*To all whom it may concern:*

Be it known that I, ALOYSE CHEVALIER AUER DE WELSBACK, of the city of Vienna, in the Empire of Austria, have invented a new and useful process of obtaining and preparing from the husks, leaves, and stalks of the plant called "maize" or "Indian corn" a textile material suitable for spinning and weaving purposes and for manufacturing paper and other useful articles, of which the following is a specification.

The nature of my invention is that I take the leaves which envelop the ears of the plant known as "maize" or "Indian corn," or the leaves and stalks of the said plant, and put them separately into a boiler, kettle, or other suitable vessel, together with a solution of lime and soda or the like, the quantity of which varies with the quality of the textile material, and expose the whole to the action of hot or boiling water for several hours. By this process the fibrous or textile material contained in the plant separates itself from the other constituents of the plant and settles itself on the bottom of the vessel, while the lighter parts continue to float on the surface of the liquid, so that when the same is poured out the tex-

tile material alone remains in the boiler. After being dried the textile material is hatcheled in the same way as the fibers of flax and hemp, to be afterward spun and woven by hand or machine.

The refuse or scraps of the weaving material, as well as the whole of the textile material or fiber, may be used for making paper, and the flour-dough which is separated from the fibers during the process may be used for bread, spirituous liquors, and other useful things.

What I desire to secure by Letters Patent is—

The process of obtaining and separating the textile material contained in the husks and leaves and stalks of maize or Indian corn by exposing the same, together with a solution of lime and soda or equivalent substances, to the action of hot or boiling water and preparing the said textile material for use in the manner above described or any manner substantially the same as above described.

ALOYSE CHEV. AUER DE WELSBACK.

In presence of—

AUGUST VON SCHMIDT,  
*Auf Altenstadt.*

KARL ENDRESSER.