THE TATHED STATES OF AMERICAL.

SALGO ARVAITE CHY OTHER CORE CORE CONTROL OF A PAGE (Allherma)

has presented to the Commissioner of Glatents a petition praying firthe great of Verrous Barrer for an allegal new and weful During Val-Marie

a description of which invention a continued in the Sparfection of which a copy is hereinto annocal and made a part hera, and his complete with the various requirements of linear such was made un private and

"Morning upon due commention much the white Chamant a myschood to be justly outilled to a Relent under the Line

New therefor the LEGGERES TENGENCE are to grant ante the said for the term of your from the thousand ought humbral and_

the evelance right to make are and road the said invention throughout the United Hilles and the Verilleries though

Bu testimony whereof I have hornate set my hand and award the sail of the Vatent Office in the your of our Sent on thewand right han the Independence of the United States

Asser

UNITED STATES PATENT OFFICE.

IOHN W. BARNETT, OF BIG SPRING, VIRGINIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM ST. JOHN, OF HARRODSBURG, KENTUCKY.

IMPROVEMENT IN CURING LEAF-TOBACCO.

Specification forming part of Leiters Patent No. 211,210, dated January 7, 1879; application filed

To all whom it may concern:

Be it known that I, JOHN W. BARNETT, of Big Spring, in the county of Montgomery and State of Virginia, have invented a new and State of virginos, base becented a new and valuable Improvement in Processes for Curing Leaf-Tobacco; and I do hereby declare that the following is a fall, clear, and exact dethe following is a ran, clear, and e scription of the operation of the same This invention has relation to the art of

curing tobacco from the field; and it consists in the method or process hereinafter fully de-

The object of this invention is to shorten materially the time usually employed in this operation, so that the tobacco can be brought into market at an early date after cutting, Its object is also to produce from tobacco of ordinary growth the grades of cured tobacco or most appreciated in the market at little ex-

pense of money or time, The process is as follows for yellowing and toughening: In the first place I allow from one to two days for cutting and housing a barn Then the first fires are made under the tobacco, which is hung in the upper part of the barn. These fires are made at a little distance from each other on the ground floor, in the proportion of about sixteen fires to a barn twenty-two feet square. are preferably built of charcoal, so as to have are preferably built of charcont, so as to have little or no smoke, and the temperature of the harn is kept for the first twelve hours at from 800 to 900 Fahrenheit, in the following manner: The firings are during this time renewed five times in succession, and water is sprinkled over the ground at each renewal. During the two first firings the barn is kept at from 80° to 850 temperature, and during the next three fir-ings at 850 to 900. Each firing should be kept at the above heat not longer than thirty-five or forty minutes. During the second twelve hours about seven firings should be made under the tobacco, the sprinkling being continued at each renewal, and the temperature of the barn during these firings being for the three first 850 to 900, and for the next four 900 to 930, these temperatures not to be continued at each firing over forty minutes. During the third twelve hours eight or nine firings are made, the water being sprinkled on the ground

around the fires at each renewal, and the temperature being kept as follows: For the first three firings at 90° to 35°; for the next three at 92° to 97°, and for the two or three last at 95° to 100°, the heat during these twelve hours being never allowed to fall below 750 or 800. During the next six hours there should be about seven firings, and the temperature from 105° to 110° or 112°, never being allowed during this time to full below 800 or 850. By this time the tobacco should be tough enough and yellow enough to commence raising the fires for curing. cess is especially adapted to fine tobacco. have yellowed it in less time; but the average is about as stated. During the first part of this process the fires may be allowed to die out, or nearly out, between the firings, because the tobacco is at first more tender, and would otherwise commence to cure with too much green in it.

In the second place the mode of caring the tobacco, after it has been yellowed and tough ened, is as follows: The fires, being arranged as above described for the first part of the proeess, are raised so that the temperature shall range during the first hour from 100° to 112°; second hour, from 112° to 120°; third hour. from 120° to 130°; fourth bour, from 130° to 145°; fifth hour, from 142° to 157°; sixth hour, from 1550 to 1620; seventh hour, from 1620 to 168°; eighth hour, from 165° to 170°; ninth hour, from 170° to 175°; tenth hour, from 175° to 180°; eleventh hour, from 180° to 185; and twelfth hour, from 185° to 200°. This process is for fine tobacco which has been well toughened and yellowed. If not sufficiently tough-ened and yellowed, the enring process should be carried on more slowly.

The doors of the barn or house should be opened at 115° or 120° temperature, and kept open a part of the time until the temperature is raised to 150°, then closed until the house is finished, except when opened for replenishing the fires. The object of this is to give the tobacco a chance to dry a little and let off the sweat or moisture; otherwise the drying and enring will be slower and the tobacco not so bright in color

In this curing operation the water is used

in the following manner: Holes are made in in the following manner: Holes are made in the Bool about a bushel of charcoal, so that will hold about a basile of charcoal, so that when the fires reach a temperature of 2000 the when the intestence a temperature of 2000 the twenty-two feet square about sixteen of these holes will be required, and in proportion for larger or smaller barns. While waiting for the charcoal in these holes to commence burning, apply the water by sprinkling around the ing, apply the vacet by sprinking around the free on the ground, making the ground very damp around and close to each fire, so that when the fires get to their highest heat the dampness of the atmosphere in the barn will dampness of the armosphere in the parn will be greatest, in order to keep the tobacco from drying and prevent setting the green in it cases the floor of the house should be kept damp and the doors closed until the heat is 1150 or 1200. Then the doors should be are and the use of the water continued in the same manner until the temperature is 1300

Language. Then the water is dipersonal uniform the bear of the mean of the mean of the mean of the darking with clay or otherwise, in order that per decided the mean of the m

ting required for the process of enring a house from the field, including the yellowing and toughening as the first part of the entire process or operation, is from three and one-half to five days, according to the quality of the tobacco, the finest tobacco taking the shortest time. The process, therefore, varies somewhat, according to the quality of the tobacco. If the coarse and darker the tobacco is the first process, therefore, and the first process, therefore, varies somewhat, according to the quality of the tobacco.

longer the time and slower the process.

I may aware of the process of yellowing and carring tobacco described in the patent of C, W. Filippia, dated April 2, 1872, and I do not claim such invention, which is different from miae. I do not use steam. The temperature in the process never rises over 112° in the first the process in the process are not over 200° in the latter or cutting part.

What I dails as my invention, and desire to secure by Letters Patent, is—
The process of yellowing, toughening, and suring toloace by renewed ground firings and ground-spitchlines, at temperatures ranging after the process of yellowing, toughening, and from 1120 to 9000 in the latter or carrier part, with intermediate falls in the temperature, the hanging shouse being closed except when the temperature is ranging closed except when the temperature is ranging in the process of the p

dispensed with at 135°, as specified.

In testimony that I claim the above I have hereinto subscribed my name in the presence of two witnesses.

JOHN W. BARNETT.

THOS. M. NORTHCHOSS,

