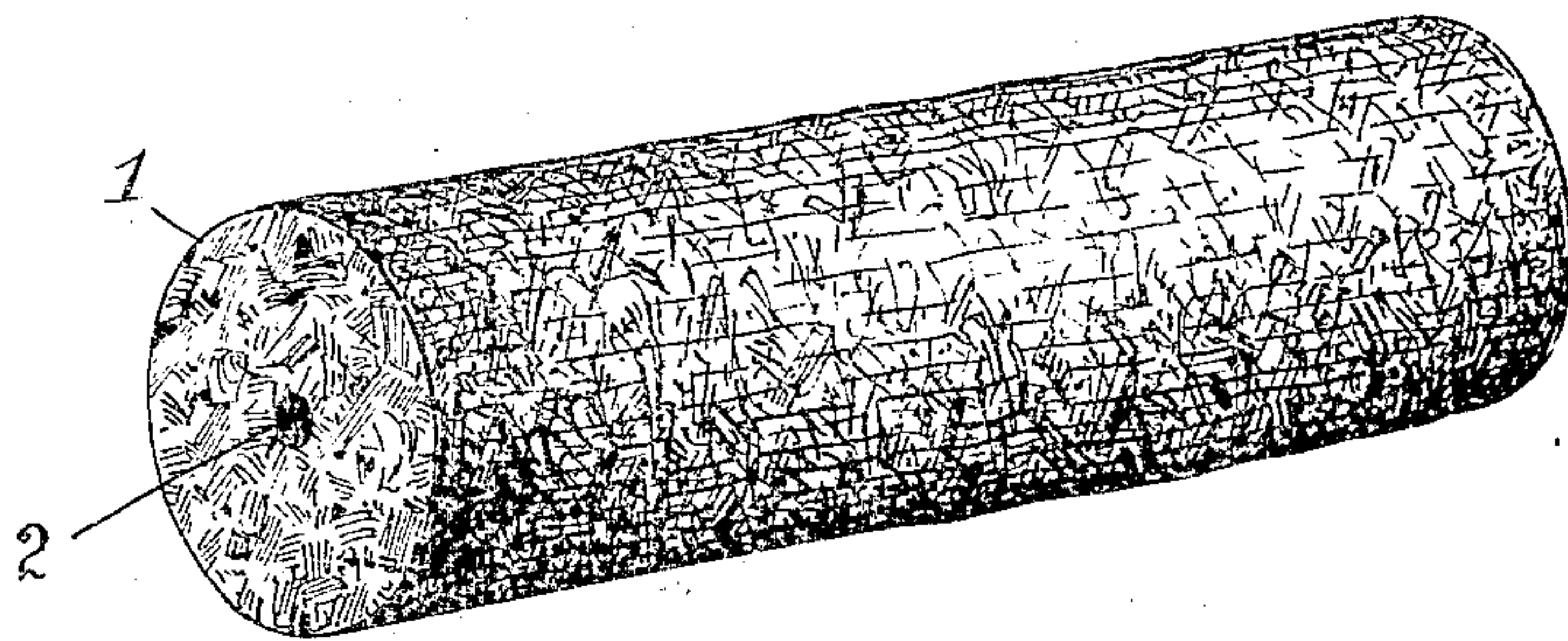


I. FOREMAN & J. L. THORNTON.
ARTIFICIAL FUEL.

APPLICATION FILED JULY 20, 1908.

912,554.

Patented Feb. 16, 1909.



Witnesses.

St. Monteverde.
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UNITED STATES PATENT OFFICE.

IRA FOREMAN AND JOHN L. THORNTON, OF LOS ANGELES, CALIFORNIA, ASSIGNORS
TO PRESSED WOOD CO., OF LOS ANGELES, CALIFORNIA, A CORPORATION OF CALI-
FORNIA.

ARTIFICIAL FUEL.

No. 912,554.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed July 20, 1908. Serial No. 444,349.

To all whom it may concern:

Be it known that we, IRA FOREMAN and JOHN L. THORNTON, both citizens of the United States, residing in Los Angeles, county of Los Angeles, and State of California, have invented new and useful Improvements in the Processes of Manufacturing Artificial Fuel, of which the following is a specification.

10 Since we filed an application for a process of manufacturing artificial fuel, which was filed July 2nd, 1906, No. 225,410, and upon which Letters Patent No. 864,525, dated August 27th, 1907, were issued, we have found
15 by experiment that in producing such artificial fuel it is not necessary to saturate the core with inflammable material or to form a coating of similar substance upon said core, but that by applying a pressure of at
20 least 250 pounds to the square inch, comminuted material such as shavings from a planing mill will be bonded together and to a fiber core so that a stick of wood will be produced that can be stored and handled,
25 and the object of our present invention is to produce artificial fuel with less material and labor than is set forth in said patent.

The drawing accompanying this application is a perspective view of a completed
30 stick of wood.

In the process of manufacturing artificial fuel we take a small rope, or a large cord of fiber 1 such as cotton, hemp or jute, and place a suitable tension thereon. We then
35 pack around such rope or cord planing mill

shavings 2 or other comminuted inflammable material and bond such material to the core by the pressure of at least 250 pounds per square inch. The tension on the fiber cord and upon the material packed around
40 the same is suitably applied in a machine adapted for that purpose, which produces a continuous stick which is cut into suitable lengths as the same passes out of the machine in which the outside material is com-
45 pressed upon the core.

Having described our invention what we claim is:

1. The herein described method of manufacturing artificial fuel which consists in
50 providing a fiber core under tension and packing around and bonding to such fiber core planing mill shavings under pressure of 250 pounds to the square inch.

2. The herein described method of manu-
55 facturing artificial fuel which consists of providing a fiber core under tension and then packing around and bonding to such core finely divided inflammable material under a pressure of at least 250 pounds per square
60 inch.

In witness that we claim the foregoing we have hereunto subscribed our names this
14th day of July, 1908.

IRA FOREMAN.
JOHN L. THORNTON.

Witnesses:

G. E. HARPHAM,
S. B. AUSTIN.