

# United States Patent Office.

DRAKE W. DENTON, OF ITHACA, NEW YORK.

Letters Patent No. 108,334, dated October 18, 1870.

## IMPROVEMENT IN ROOFING FABRICS.

The Schedule referred to in these Letters Patent and making part of the same

I, DRAKE W. DENTON, of Ithaca, Tompkins county, New York, have invented an Improved Roofing, of which the following is a specification.

My object is to utilize flax-waste and make it into a batting, and to saturate it either wholly or in part with asphaltic and coal-tar mixtures; and I make the waste tow of flax, combined with the waste haulm or shives of the flax plant, into layers or rolls of batting, by any convenient process; and, by rollers, hot or cold, or other similar process, I cause the asphaltic mixture, coal-tar, or coal-tar resin, to penetrate the batting and make rolls or sheets of roofing material.

When I use the waste tow of flax alone, it makes an excellent batting, but is more costly than when I combine, as far as possible, the shives with it; therefore it is to my advantage to use as much of the shives as I can in my batting.

Both the tow-waste and the shives-waste are very slow and difficult to rot, and they, unprotected, long resist atmospheric changes.

Alone the batting is not water-tight, but, by any of the common preparations of asphaltic nature, it easily is made into an excellent roofing sheet or material.

Further, I prefer to unite two sheets of flax-waste

batting by putting a layer of asphaltic nature between the sheets or rolls, and, by thus making my roofing sheet, I, at one process, make a thicker sheet, and render both impervious to water. The same is also true if I unite three or four sheets of flax-waste batting into one sheet. I also coat the upper sheet, or the outside of the batting, when laid on the roof, with an asphaltic or coal-tar mixture or covering, when desirable; and also use, but do not confine myself to them, the mixtures or material stated in my patent dated May 26, 1868, No. 78,269, and in my patent dated April 2, 1867, No. 63,371, to saturate or blend the above-described sheets.

### Claim.

I claim—

A roofing-batting, made of flax-waste, and made impervious to water by asphaltic or plastic substances, substantially as described.

D. W. DENTON.

Witnesses:

SAMUEL J. PARKER,  
A. M. LUCAS.