No. 687,389. Patented Nov. 26, 1901.

O. WILHELMI.

COVERING FOR SUBTERRANEAN CABLES.

(Application filed June 20, 1901.)

(No Model.)

Fig: 1.

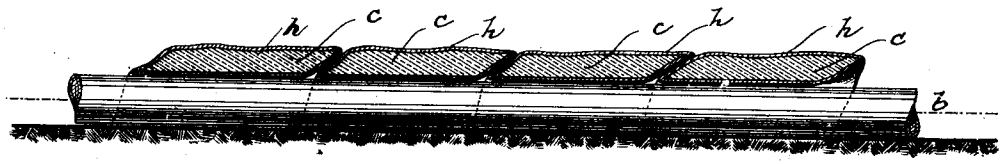


Fig: 2.

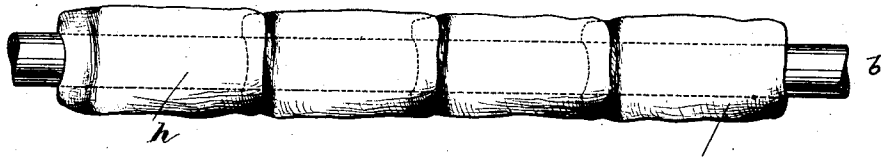


Fig: 3.

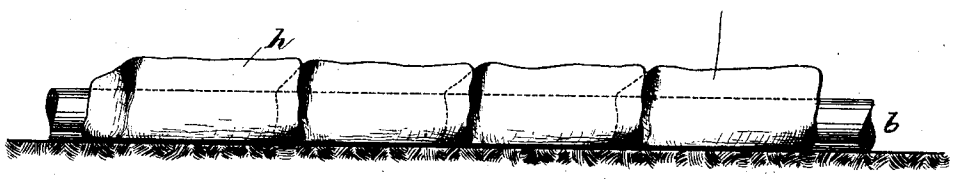


Fig: 4.

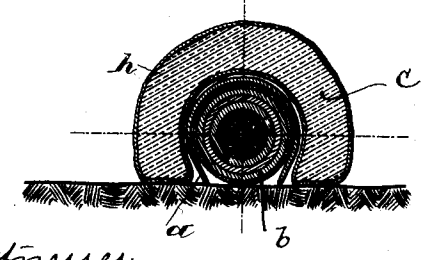
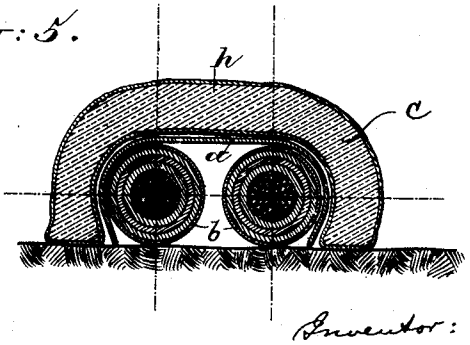


Fig: 5.



Witnesses:
Edward Ray.
William Schulz.

Inventor:
Otto Wilhelmi
by his attorneys
Roeder & Briesen

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UNITED STATES PATENT OFFICE.

OTTO WILHELMI, OF DUSSELDORF, GERMANY.

COVERING FOR SUBTERRANEAN CABLES.

SPECIFICATION forming part of Letters Patent No. 687,389, dated November 26, 1901.

Application filed June 20, 1901. Serial No. 66,256. (No model.)

To all whom it may concern:

Be it known that I, OTTO WILHELMI, a citizen of Germany, residing at Dusseldorf, Germany, have invented certain new and useful Improvements in Coverings for Subterranean Cables, of which the following is a specification.

This invention relates to an improved covering for subterranean cables, which may be employed in any soil, will closely hug the cables, and will protect them against injury by the pickax or shovel. The brick coverings heretofore generally used were liable to become easily broken, particularly when the soil was rammed down. Moreover, the covering being stiff did not closely fit the curves of the cables, so that its application was irregular. Finally, during uncovering or repairs the pickax or shovel was liable to penetrate the joints and injure the cable.

In the accompanying drawings, Figure 1 is a side view of a cable, showing my improved covering in section with strips *a* omitted. Fig. 2 is a plan; Fig. 3, a side elevation; Fig. 4, a cross-section showing a single cable, and Fig. 5 a cross-section showing a double cable.

The letter *b* represents a cable over which I place a strip of asphaltum, tar-paper, or similar material *a*. Over this covering I place burlap bags *h*, containing beton *c* or similar hardening-material, the latter being either wet or dry. The bags are flattened and after being laid lengthwise on the strips *a* are tightly pressed in place. The adjoining ends of the bags are inclined so as to overlap, Fig. 1, and close the joints, the seams of the bags preferably covering each other. Tarred paper or similar material may be interposed between the bags, so that they may be readily separated when repairs or other work is to be done.

Instead of using tar-paper *a* the bags themselves may be composed of tar-paper or may be impregnated in such a manner that they will not adhere to one another or to the cable.

The above covering not only constitutes a superior protection for the cables, but it may be applied more quickly than the brick or other rigid coverings heretofore in use.

What I claim is—

1. A cable provided with a covering composed of bags containing beton, substantially as specified.

2. A cable provided with a covering composed of bags containing beton, and having overlapping ends, substantially as specified.

3. A cable provided with a covering composed of tar-paper strips placed upon the cable, and of superposed bags containing beton, substantially as specified.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

OTTO WILHELMI.

Witnesses:

WILLIAM ESSENWEIN,

PETER LIEBER.