

I. M. BAUM.
PIPE COVERING.
APPLICATION FILED JUNE 18, 1917.

1,325,923.

Patented Dec. 23, 1919.

Fig. 1

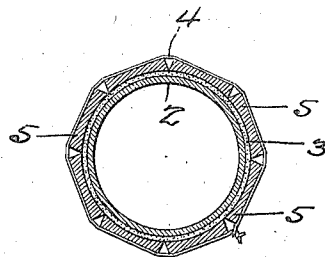
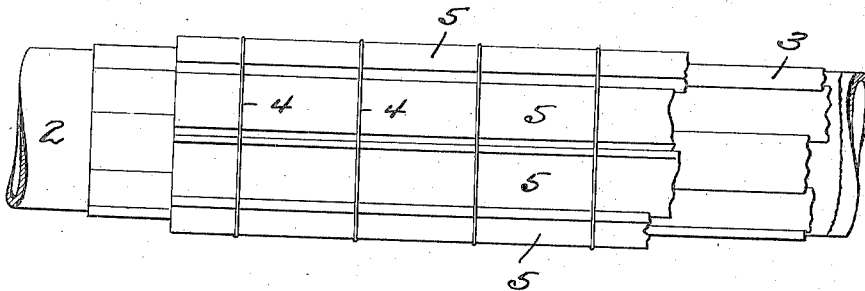


Fig. 2

Witness

J. B. Gardner

INVENTOR
I. M. BAUM

BY *White & Frost*

HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

ISAAC M. BAUM, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO THE PARAFFINE COMPANIES, INC., OF SAN FRANCISCO, CALIFORNIA, A CORPO-
RATION OF CALIFORNIA.

PIPE-COVERING.

1,325,923.

Specification of Letters Patent.

Patented Dec. 23, 1919.

Application filed June 18, 1917. Serial No. 175,325.

To all whom it may concern:

Be it known that I, ISAAC M. BAUM, a citizen of the United States, and a resident of the city and county of San Francisco and State of California, have invented a certain new and useful Pipe-Covering, of which the following is a specification.

The invention relates to a covering for pipes which are buried in the ground.

An object of the invention is to provide a covering which prevents the formation of air or moisture pockets between the covering and the pipe.

The invention possesses other advantageous features, some of which, with the foregoing, will be set forth at length in the following description where I shall outline in full that specific form of the invention which I have selected for illustration in the drawings accompanying and forming part of the present specification.

Referring to said drawings:

Figure 1 is a longitudinal view of a section of pipe inclosed in the covering of my invention.

Fig. 2 is a cross section of the covered pipe.

The invention is particularly applicable to iron pipes such as oil pipe lines, which are buried in the ground. It has been the custom to cover such pipes with a waterproof, fibrous or fabric covering to prevent access of air or moisture to the outer surface of the pipe. The pipes have generally been coated with an adhesive, such as asphalt or tar, and the fibrous or fabric material wrapped around the coated pipe and frequently the material has then been coated with asphalt or tar or similar material. It is essential that the covering be held tightly in bond with the pipe, but I have found that the covering frequently sags on the pipe, producing air pockets which soon become moisture pockets, thereby destroying the effectiveness of the covering. The sagging of the material is often caused by a softening of the asphalt due to solar heat and the heat of the liquid in the pipe. An object of my invention, therefore, is to provide means for preventing sagging of the covering, and thereby prevent the formation of pockets.

In accordance with my invention, the pipe 2 is first covered with a fabric 3 which is preferably waterproof and air-proof and which is either wrapped tightly around the pipe or which is laid in strips longitudinally of the pipe and which is held thereto by a suitable waterproof adhesive formed of alkali resistant and non-oxidizing compounds. For this purpose I may use an asphaltic compound such for instance as California refined asphalt of the grade commercially known as "D" asphalt. As long as the waterproof and air-proof covering remains tightly in bond with the pipe, the pipe will be protected and I have provided means for holding the covering tight against the pipe to prevent sagging. Surrounding the covering and held in place by suitable straps 4, are a plurality of longitudinally disposed contiguous wooden battens 5, preferably formed of redwood and which are curved transversely on their inner surfaces to conform to the curvature of the covered pipe. Redwood is preferred because of its great resistance to decay when buried in the ground. These battens support the waterproof covering over its entire surface and prevent the deleterious sagging of the covering, with the consequent formation of air and moisture pockets.

I claim:

1. The combination with a pipe having a fabric covering adhesively attached thereto by an alkali resistant and non-oxidizing compound, of a rigid shell surrounding the covering and pressing the covering against the pipe.

2. The combination with a pipe having a fabric covering adhesively attached thereto by an alkali-resistant and non-oxidizing compound, of a plurality of longitudinally disposed contiguous wooden battens surrounding the covering, and means for pressing the battens against the covering.

In testimony whereof, I have hereunto set my hand at San Francisco, Cal., this 7th day of June, 1917.

ISAAC M. BAUM.

In presence of—
H. G. PROST.