

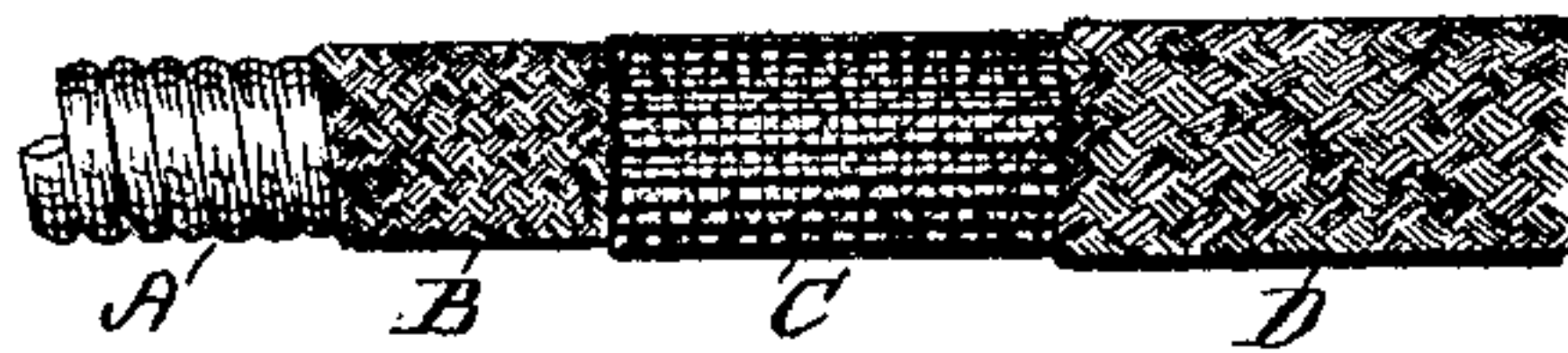
(No Model.)

W. BOURGUIGNON.

COMPOSITION FOR COATING FLEXIBLE TUBES FOR GAS AND OTHER  
PURPOSES.

No. 248,841.

Patented Nov. 1, 1881.



*Witnesses.*

*Socrates Scholfield*  
*Michael Craven*

*Inventor.*

*Wendel Bourguignon*

# UNITED STATES PATENT OFFICE.

WENDEL BOURGUIGNON, OF PROVIDENCE, RHODE ISLAND.

COMPOSITION FOR COATING FLEXIBLE TUBES FOR GAS AND OTHER PURPOSES.

SPECIFICATION forming part of Letters Patent No. 248,841, dated November 1, 1881.

Application filed July 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WENDEL BOURGUIGNON, of Providence, in the State of Rhode Island, have invented an Improved Composition for  
5 Coating Flexible Tubes for Gas and other Purposes, of which the following is a specification.

The nature of my invention consists in a gas-proof composition for coating flexible tubes, which is composed of animal oil, grease, or fat  
10 mixed with melted amber.

The composition for coating the tube and rendering the same gas-proof is made by first melting and boiling the amber, and when in a liquid heated state adding thereto animal oil,  
15 grease, or fat in about the proportion of eight parts of amber to one part of oil or grease. The whole, after being thoroughly mixed, is ready for the insertion or dipping of the tube to be coated, and the resulting coat deposited  
20 on the tube will be of a tenacious sticky nature and gas-proof, filling the interstices of the braided covering of thread upon the foundation wire coil.

In making the flexible tube a foundation  
25 spiral coil of wire is first formed having an inner diameter equal to the diameter of the bore of the tube required. Upon the outer sur-

face of the coil so formed of wire a covering of thread is applied by means of a braiding-machine, after which the tube is passed through 30 the above-described composition, saturating the thread and filling the interstices of the coils and the braided covering, and after thus treating the tube one or more braided coverings of thread are applied to the exterior, in 35 order to suitably cover the sticky surface of the composition and to produce the desired finished appearance.

In the accompanying drawing, which shows a portion of tube with layers successively removed, A is the spiral coil of wire, B a covering 40 formed of braided thread, C the amber composition coating, and D an outer covering of braided thread to finish the tube.

I claim as my invention— 45

In a flexible tube, the combination of a foundation spiral coil of wire with a covering of textile fabric coated with an amber composition, substantially as described.

WENDEL BOURGUIGNON.

Witnesses:

SOCRATES SCHOLFIELD,  
MICHAEL CRAVEN.