

W. B. S. TAYLOR.

Elastic Connections for Flexible Tubing.

No. 144,163.

Patented Oct. 28, 1873.

Fig. 1

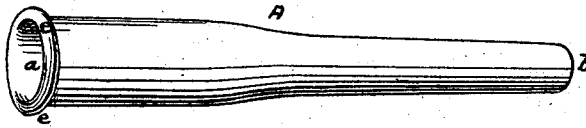
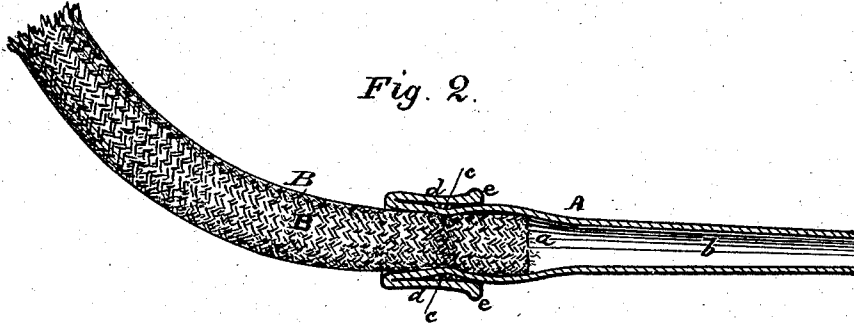


Fig. 2



Witnesses.

Ernest Dick
C. C. Wilson

Inventor

Wm. B. S. Taylor by
his attorney A. P. Smith

UNITED STATES PATENT OFFICE.

WILLIAM B. S. TAYLOR, OF NEW YORK, N. Y.

IMPROVEMENT IN ELASTIC CONNECTIONS FOR FLEXIBLE TUBING.

Specification forming part of Letters Patent No. **144,163**, dated October 28, 1873; application filed October 15, 1873.

To all whom it may concern:

Be it known that I, WILLIAM B. S. TAYLOR, of the city, county, and State of New York, have invented a certain new and Improved Elastic Connection for Flexible Tubing, of which the following is a specification:

The device in which my invention is comprised has been designed with special reference to the connecting of flexible, but inelastic, gas-tubing with the gas-burner or the pipe of a gas-stove. As a type of such flexible but inelastic tubing, I refer to the tubing patented to me February 21, 1865. This or other tubing made on a wire coil is cheaper to manufacture than the same quality of rubber tubing, and is usually preferred by dealers and consumers; but it has heretofore necessitated the employment of an expensive connection, so called, made of metal, or metal and rubber combined, which made the tubing too costly for common purposes; and, again, as all such connections as just referred to are necessarily fitted on by the manufacturer, the dealer is required to keep on hand a large number of pieces of different lengths, and even then does not always have the size required by the purchaser.

By my invention the dealer need have but one long piece or coil of tubing, from which he may cut any required length, and fit onto it the connection himself, the operation being very simple and easy. To effect this very desirable result, I have devised an elastic connection, consisting of a tubular connecting-piece of vulcanized rubber or rubber compound, with a varying internal diameter at one end, of a size to fit onto the tubing, and at the other end of a size to fit the gas-burner or the pipe or nozzle of the gas-stove, or other article to which the gas is to be conducted, substantially as herein described.

The accompanying drawing represents the manner in which my invention may be best put into practice.

Figure 1 is a perspective view of the tubular connecting-piece detached. Fig. 2 is a longitudinal central section of the same represented

as applied and attached to the end of a piece of flexible gas-tubing.

The elastic connection consists of the vulcanized-rubber tubular piece A, having a varying internal diameter, the part *a*, of larger diameter, being designed to fit onto the end of the gas-tubing, and the part *b*, of smaller diameter, to be drawn onto the gas-burner or the pipe or nozzle of the gas-stove. The part *a* is of such length that, when fitted on the tubing, it may be bound at a point intermediate between its two ends by a cord, or its equivalent, onto the tubing, leaving a sufficient length at the enlarged end to admit of this portion being turned back on the body of the tubular piece, so as to cover and conceal the binding-cord. This arrangement is represented in Fig. 2, B being the flexible but inelastic tubing; *c*, the binding-cord, and *d* the end of the elastic connection, turned back so as to cover and conceal the cord *c*. A neat finish can thus be given to the connection. I prefer to form the connecting-piece A with an annular bead or flange, *e*, at the end of part *a*, to allow the person applying the connection to more readily take hold of this end to draw it back over the cord, and also to give a better finish to the connection.

It will be understood that the exterior of the connecting-piece A may be of any suitable form or configuration, the requirement as to variation in its size referring only to its internal diameter.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The elastic connection for flexible but inelastic tubing, constructed and adapted to be fitted and secured to said tubing, as herein shown and set forth.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

WM. B. S. TAYLOR.

Witnesses:

CHARLES B. COE,
JAS. H. DODD.