

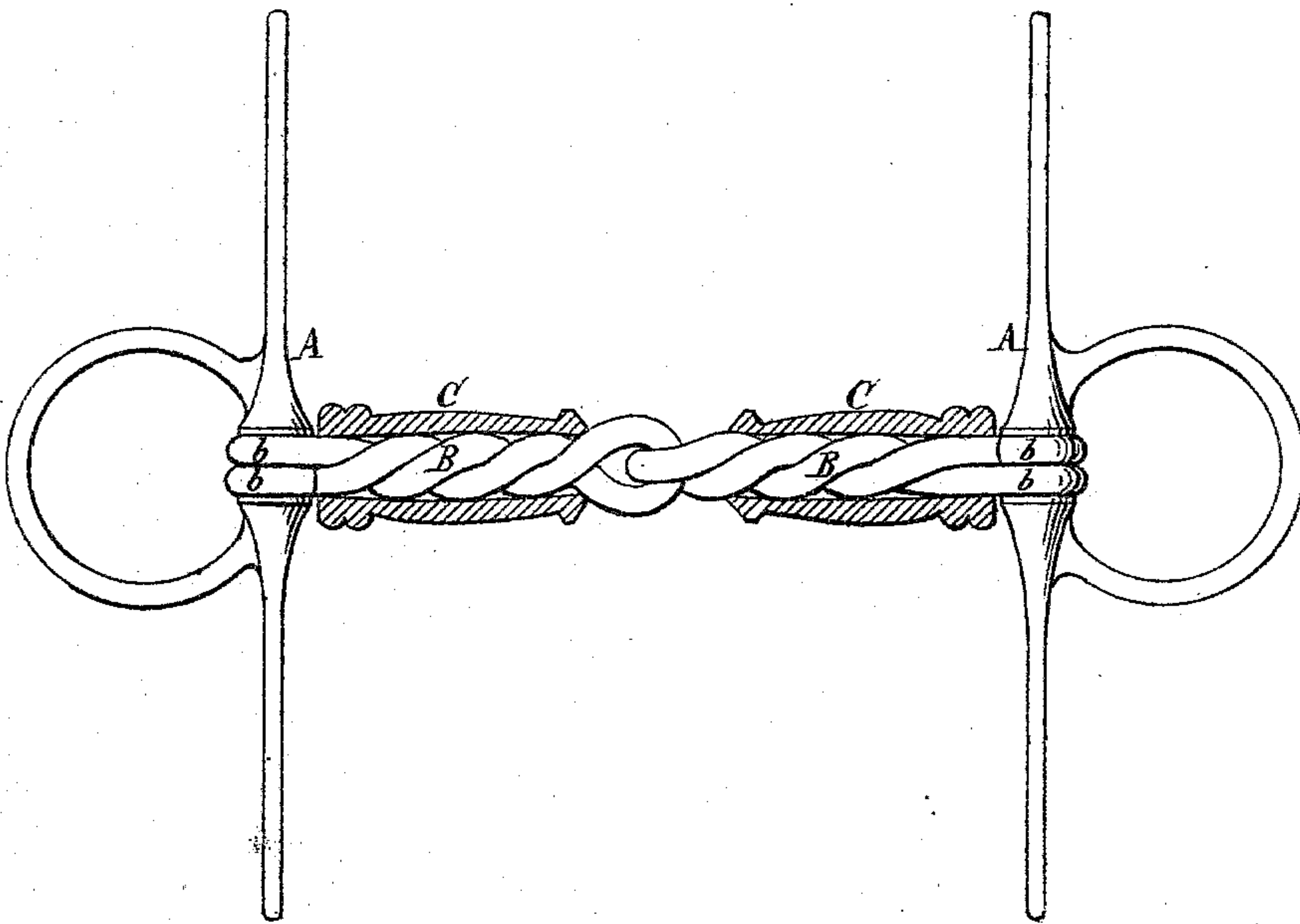
J. LETCHWORTH.

Bridle-Bits.

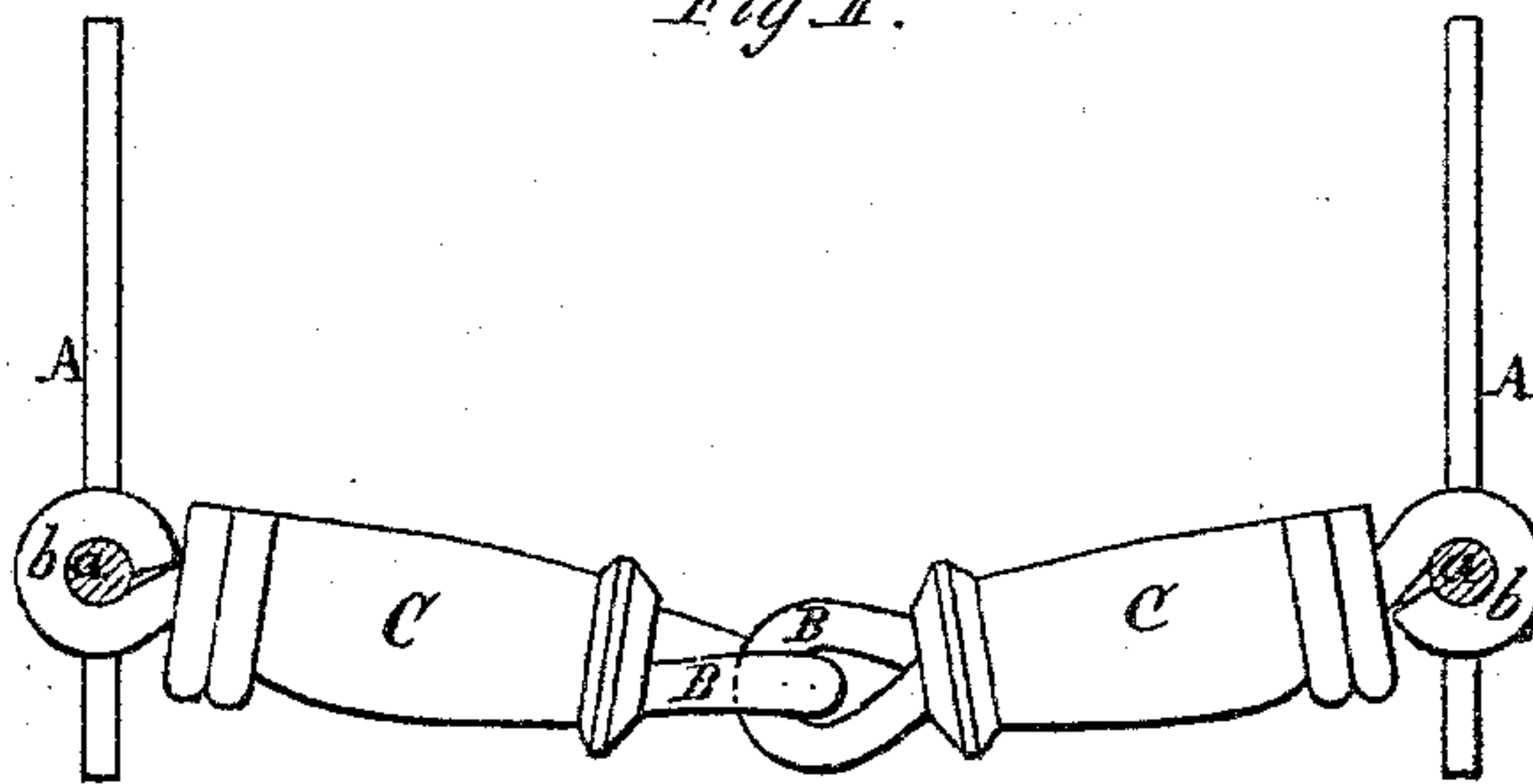
No. 134,684.

Patented Jan. 7, 1873.

*Fig. I.*



*Fig. II.*



John J. Bonner  
Edward Wilhelm  
Witnesses

Isiah Letchworth, Inventor  
by Jay Nyatt  
Att'y.

# UNITED STATES PATENT OFFICE.

JOSIAH LETCHWORTH, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN BRIDLE-BITS.

Specification forming part of Letters Patent No. 134,684, dated January 7, 1873.

*To all whom it may concern:*

Be it known that I, JOSIAH LETCHWORTH, of the city of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Bridle-Bits, of which the following is a specification:

I am aware that previous to my invention bridle-bits having a stiff mouth-piece of twisted wire, provided with a projecting sleeve or covering of soft rubber, formed of a section of rubber tubing slipped on the mouth-piece previous to its connection with the cheek-pieces, have been in common use; also, that jointed mouth-pieces of twisted wire have been provided with a metallic covering cast around each portion thereof, as shown in Letters Patent No. 90,857, granted to me June 1, 1869.

My invention consists of a bridle-bit having a jointed mouth-piece of twisted wire, each portion of which is provided with a sleeve or covering of rubber, as hereinafter fully described.

In the accompanying drawing, Figure I is an elevation of my improved bit, showing the rubber sleeves in section; and Fig. II, a plan view thereof.

Like letters designate like parts in both of the figures.

A A represent the cheek-pieces, and B B

the two portions of the twisted-wire mouth-piece, linked together at the center. C C represent the two sleeves or coverings of soft rubber applied to each part of the jointed mouth-piece, as clearly shown in the drawing. These sleeves are readily cast in a suitable mold of the desired size and shape, and slipped on the mouth-piece previous to its connection with the cheek-pieces. The open ends *b b* of the wire of each portion B of the mouth-piece are then bent around the neck *a* of each of the cheek-pieces, in opposite directions, as shown in the drawing, whereby the firm connection of the mouth-piece with the cheek-pieces is effected.

My improved bit, while possessing the same strength, and affording the same complete control over the horse as the ordinary jointed wire bit, fully protects the mouth of the animal from the abrading action of the wires.

What I claim as my invention is—

As a new article of manufacture, a bridle-bit having a jointed mouth-piece of twisted wire provided with the two sleeves C C of soft rubber, as herein shown and described.

JOSIAH LETCHWORTH.

Witnesses:

JOHN J. BONNER,  
EDWARD WILHELM.