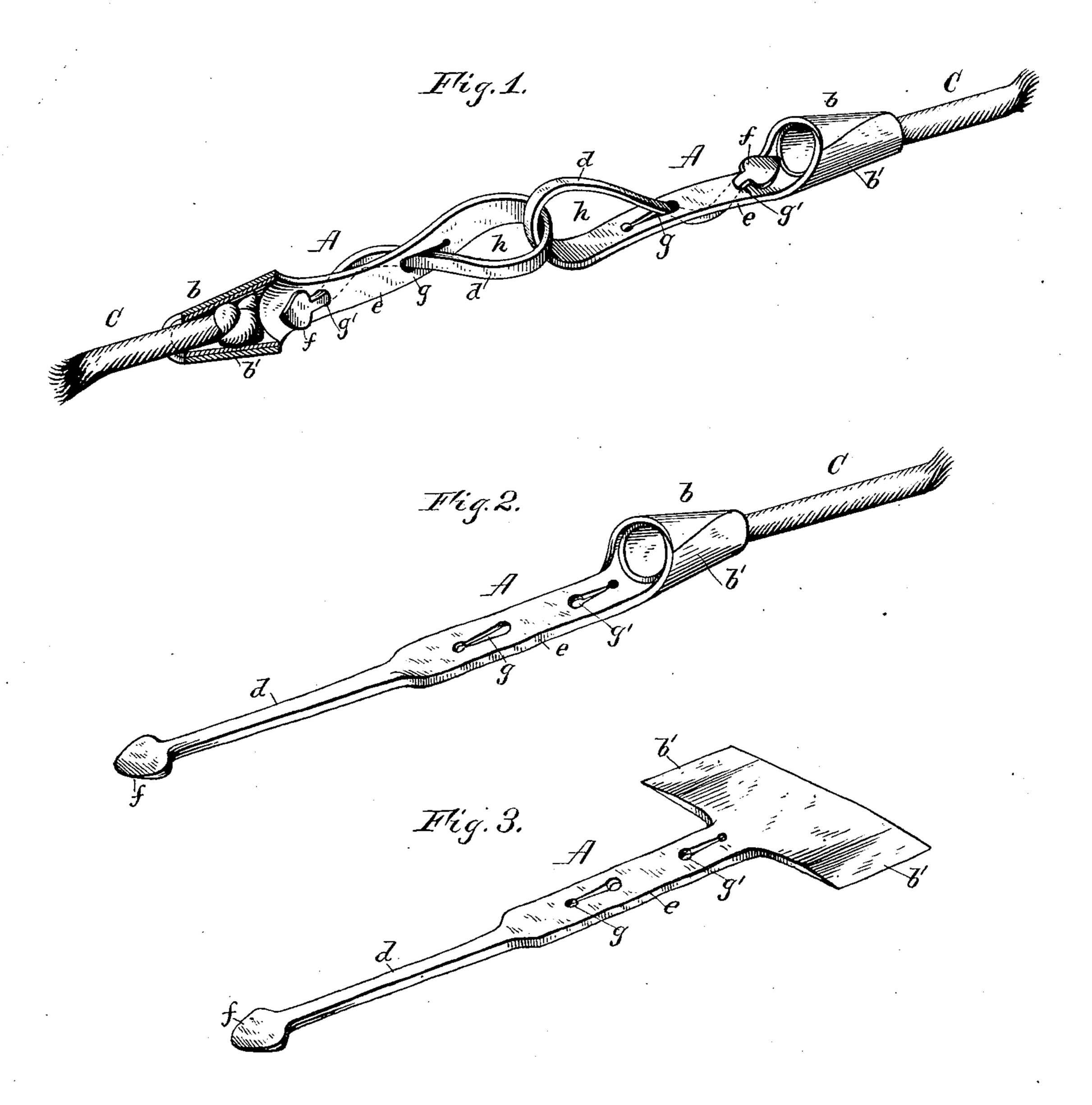
(No Model.)

## E. BROMBACHER.

BELL CORD COUPLING.

No. 370,239.

Patented Sept. 20, 1887.



Witnesses: Theo. L. Topp Geof Buchheit Jr. E. Brombacher. Inventor,
By: Wilhelm & Bonner.
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## United States Patent Office.

## EMIL BROMBACHER, OF BUFFALO, NEW YORK.

## BELL-CORD COUPLING.

SPECIFICATION forming part of Letters Patent No. 370,239, dated September 20, 1887.

Application filed July 1, 1887. Serial No. 243,071. (No model.)

To all whom it may concern:

Be it known that I, EMIL BROMBACHER, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Bell-Cord Couplings, of which the following is a specification.

This invention relates to an improvement in the couplings which are employed for connecting the different sections or lengths of the bellcord extending from the cab of the locomotive to the rear end of the train. The metallic couplings now generally used for this purpose are objectionable, because in making up a train or when pulling quickly on a slack cord it frequently happens that the couplings strike the inside of the car and mar or deface the polished wood-work thereof or break the glass of the windows, doors, lamps, &c. These couplings are also objectionable because they are liable to strike persons and cause serious injury.

The object of my invention is to provide a simple and inexpensive coupling, which will avoid these objections; and it consists of the improved coupling, which will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of my improved 30 coupling connecting the ends of two bell-cords. Fig. 2 is a perspective view of one of the couplings. Fig. 3 is a perspective view of the leather strip of which the coupling is formed.

Like letters of reference refer to like parts in the several figures.

My improved coupling is composed of a strip of leather, A, which is provided at one end with a tapering eye or socket, b, in which the bell cord C is secured by forming a knot at the end of the same. The socket b is constructed by forming the strip A with lateral extensions b', which are bent upwardly and cemented or sewed together at their adjoining edges, as shown in Figs. 1 and 2. A metallic sleeve is preferably arranged within the socket b to relieve the socket from wear.

The outer portion, d, of the strip A is made somewhat narrower than the inner portion, e, of and is provided with an enlargement or

hook - shaped end, f, g g' represent slits formed lengthwise in the wide portion e of the strip A, and through which the enlargement f is inserted, so as to form a loop, h, as represented in Fig. 1. In forming the loop  $h_{55}$ the enlargement f is given a quarter turn or twist and inserted edgewise through the outer slit, g, on the upper side of the strip A, and the narrow portion d of the strip is drawn through said slit. The enlargement f is then 60inserted through the inner slit, g', from the under side of the strip, and turned to its normal position in a plane parallel with the body of the strip, as shown in Fig. 1. In this position of the enlargement the latter projects 65 over the sides of the slit g', whereby the enlargement is prevented from being withdrawn from the slit. When the loop h has been formed on one of the strips in this manner, the end of the strip secured to the oppo-70 site bell-cord is inserted through the loop hand the enlargement f thereof is inserted through the slits g g' in a manner similar to that described with reference to the firstmentioned strip. In this manner the loops  $h_{75}$ of the two strips are interlocked and the bellcords are securely coupled together. The outer end of the enlargement f is tapered or reduced in thickness to facilitate inserting the same through the slits g g', and also to in- 80 crease the flexibility of the outer end of the enlargement, so that the same will not act as an obstruction in drawing the coupling through the rings or openings in which the bell-cord is supported.

My improved coupling is composed entirely of flexible or yielding material, thereby preventing the coupling from marring the interior of the car or causing injury to the passengers.

It is obvious that the coupling may be constructed of rubber or other soft and yielding material possessing the requisite amount of strength.

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I claim as my invention—

1. A bell-cord coupling composed of a strip of leather or other flexible material provided at one end with an eye or socket to secure the end of the bell-cord, and at its opposite end with an enlargement adapted to engage 1/0

in a slit or opening formed in the body of With the strip to form a loop, substantially as set 1887. forth.

2. A bell-cord coupling composed of a flexible strip, A, provided at one end with a socket or eye, b, and slits g g', and at its opposite end with an enlargement, f, adapted to engage in said slits, substantially as set forth.

Witness my hand this 8th day of June, 1887.

EMIL BROMBACHER.

Witnesses:
CARL F. GEYER,
FRED. C. GEYER.