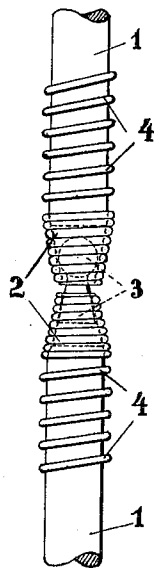


J. BÄTTIG.
LIGATURE FOR LEATHER STRINGS AND THE LIKE.
APPLICATION FILED AUG. 20, 1912.

1,095,784.

Patented May 5, 1914.



Witnesses:

W. Williams
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Att'y

UNITED STATES PATENT OFFICE.

JOSEF BÄTTIG, OF STEIN, SWITZERLAND.

LIGATURE FOR LEATHER STRINGS AND THE LIKE.

1,095,784.

Specification of Letters Patent.

Patented May 5, 1914.

Application filed August 20, 1912. Serial No. 716,103.

To all whom it may concern:

Be it known that I, JOSEF BÄTTIG, a citizen of Switzerland, and resident at Stein-on-the-Rhine, Switzerland, have invented
5 certain new and useful Improvements in Ligatures for Leather Strings and the like.

My present invention relates to ligatures for leather-strings or the like, and has for its object to provide an improved ligature,
10 which does not decrease the yieldingness of the leather-string and which is of yielding nature so that the string will be prevented from being broken by heavy strain.

Another object of the invention is to provide a ligature or fastener, which forms an inappreciable projection on the string, so that the latter as well as the grooved-pulley around which passes the string, will not be injured in use.

15 The ligature or fastener of this invention is essentially distinguished from other ligatures or fasteners heretofore known, by the particular intermediate member, which connects the opposite ends of the coiled springs.
25 Said intermediate member has at one end a ball joint and at the opposite end a beveled head, whereby the coiled springs are adapted to be easily screwed or coiled upon the ends of the string. Furthermore said intermediate member enables a stronger connection to be produced than it was the case heretofore by means of hooks, which are readily worn away by heavy strain and the continuous movement of the parts.

35 In the accompanying drawings I have illustrated my invention by way of example.

Secured to each end of the leather string 1 is a steel-wire, which is closely coiled in the shape of a spring. The coil-spring 2 is
40 beveled toward one end and this beveled end is fastened to an intermediate member 3, which connects both springs 2 together. The intermediate member 3 forms a ball, with which is made integral a beveled head.

As shown in the drawing the spring 2 is fitted around the ball, while the second spring encircles the beveled head. In order to enable the spring to be connected to the head, the latter is provided with a bore, whereby said head may be flared outwardly, so that the spring is adapted to turn upon the same and prevented from slipping off. The connection is prevented from being loosened accidentally. The cylindrical portion 4 of the spring has its coils arranged
55 apart from one another, so as to enable the string to be freely bent. The closely coiled portion of the spring makes the string elastic, so that the latter cannot break by momentary heavy strain. The particular
60 form of the intermediate member enables the string to be bent at the point of fastening without loosening the connection.

I claim:

In combination, two belt sections, a coil
65 spring spirally wound around the end of one of the belt sections, the spirally wound spring extending beyond the end of said belt section to form a hollow inverted cone, a cap member formed at one end with a ball
70 which fits in and is confined by the aforesaid hollow inverted cone portion of the opening, the cap member having an outwardly tapered base which is in alinement with the belt sections, a second coil spring
75 spirally wound around the upper end of the other belt section, said second mentioned coil spring being extended beyond the end of the second mentioned belt section and formed into a hollow cone portion which fits
80 over and confines the base portion of the cap.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

JOSEF BÄTTIG.

Witnesses:

ERWIN HABTUTZEL,
WEBER FRIDOLIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."