

A. ZOLLINGER.
STRING FOR MUSICAL INSTRUMENTS.
APPLICATION FILED APR. 8, 1908.

980,472.

Patented Jan. 3, 1911.

Fig. 1.

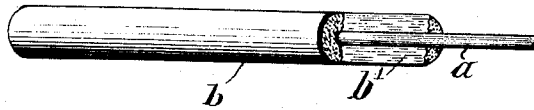


Fig. 2.



Witnesses.

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ADALBERT ZOLLINGER, OF LEIPZIG-EUTRITZSCH, GERMANY, ASSIGNOR TO THE FIRM
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STRING FOR MUSICAL INSTRUMENTS.

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Specification of Letters Patent.

Patented Jan. 3, 1911.

Application filed April 8, 1908. Serial No. 425,975.

To all whom it may concern:

Be it known that I, ADALBERT ZOLLINGER, a subject of the German Emperor, residing at Leipzig-Eutritzsch, Germany, have invented certain new and useful Improvements in Strings for Musical Instruments, of which the following is a specification.

The object of this invention is to produce a cheap substitute for gut-strings for use in musical instruments, more especially mechanically-played instruments, in which gut-strings are inappropriate since they are affected by the amount of moisture in the air and require frequent tuning which is impossible in the case of a mechanical instrument.

Strings formed according to the present invention, are illustrated in the annexed drawing in which—

Figure 1 is a perspective view of a string formed according to the present invention a portion of the exterior part thereof being removed. Fig. 2 is a similar view of a modification.

An elastic envelop *b* obtained by reduction into a fluid state of gut or a similar mass, is pressed in a plastic state around a metallic wire *a* by means of suitable devices. In order to increase the solidity there may also be mixed with the mass fibers *b*¹. After dry-

ing, the elastic mass adheres perfectly to the metal core which takes up the tension, so that the tension of the string is not changed by humidity or change of the temperature.

The exterior of the string is soft and elastic and possesses therefore all necessary qualities for the production of good string music.

For protecting the metal core against rust it may be plated with tin, aluminium or other metal, or as shown in Fig. 2 surrounded by a wrapper *c* of fibrous material.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. A string for musical instruments comprising a metallic core and a coating composed of a plastic mass of gut and fibrous material molded thereon.

2. A string for musical instruments comprising a metallic core plated with non-rustable metal and inclosed in a plastic mass of gut and fibrous material.

In witness whereof I have signed this specification in the presence of two witnesses.

ADALBERT ZOLLINGER.

Witnesses:

RUDOLPH FRICKE,
HERM. TACK.