

R. M. HUTCHINSON.
PIANO AGRAFFE.
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Patented Apr. 5, 1910.

954,189.

Fig. 1.

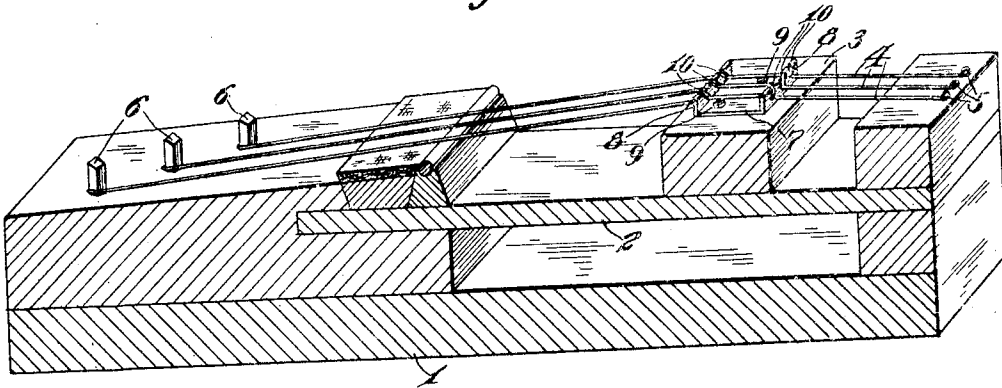


Fig. 2.

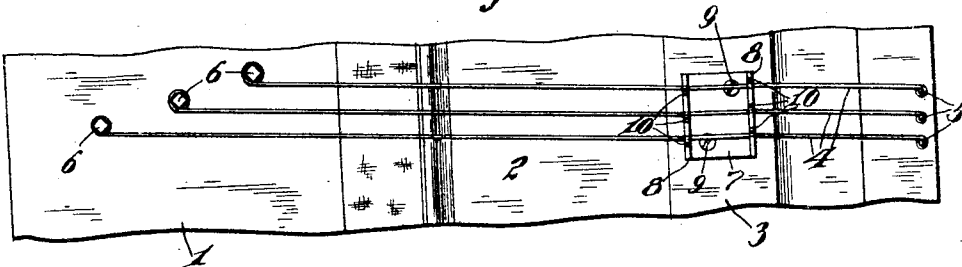
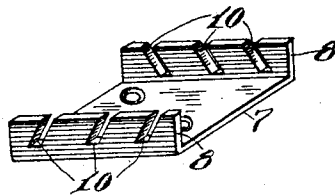


Fig. 3.



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UNITED STATES PATENT OFFICE.

ROBERT M. HUTCHINSON, OF ELGIN, ILLINOIS.

PIANO-AGRAFFE.

954,189.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed March 27, 1909. Serial No. 486,241.

To all whom it may concern:

Be it known that I, ROBERT M. HUTCHINSON, a citizen of the United States, residing at Elgin, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Piano-Agraffes, of which the following is a specification.

My invention relates to an improved piano agraffe, the object of the invention being to provide a simple, inexpensive construction, which can be readily secured upon the bridge of a piano, and which will most effectually hold the wires.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations, and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a fragmentary view in section and perspective illustrating the application of my improvements. Fig. 2, is a detail plan view, and Fig. 3, is an end view of my improved agraffe detached.

1 represents a piano frame, 2 the sounding board, 3 the bridge, and 4 the wires connected to hitch pins 5 at one end, and tuning pins 6 at their other ends, and passing across the bridge 3.

7 represents my improved agraffe, which is composed preferably of sheet metal having upturned ends 8 as shown, and the body of the agraffe is perforated to receive screws 9, to secure the same on the bridge 3. The ends 8 are provided with inclined or diagonal notches or recesses 10, the recesses in one end inclining in an opposite direction to the recesses in the other end of the agraffe.

An agraffe is to be secured in an obliquely disposed position on the bridge, so as to bring the lower ends of the notches 10 on opposite sides of the line of direction of the body of the piano wires and thus force said wires into the lower extremities of said notches and put a slight double bend in the wires. This will securely lock the wires in position and prevent communication of the vibrations of the body of the wires to

the portions between the bridge and hitch pins.

The particular construction shown, discloses three notches in the opposite ends of the agraffe, but I am of course not limited to any particular number of notches, and consider myself at liberty to make the agraffe of any size and employ any number of notches desired.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. The combination with a piano bridge, hitch pins and wires crossing said bridge and secured to said pins, of an agraffe comprising oppositely disposed members mounted on said bridge, inclined wire-receiving notches in the member farther away from said pins; and wire-receiving notches in the other member, oppositely inclined to said first mentioned notches, and their bottoms located out of the line connecting the bottoms of said first mentioned notches with said hitch pins.

2. The combination with a piano bridge, and wires crossing said bridge, of an agraffe comprising oppositely disposed members mounted on said bridge and provided with oppositely inclined wire-securing notches arranged on opposite sides of a line parallel to the line of direction of the body of said wires.

3. An agraffe comprising a base and upturned ends, the latter having oppositely-inclined wire-receiving recesses.

4. An agraffe comprising a sheet metal blank having upturned ends, a series of inclined notches or recesses in each upturned end, said recesses in one end oppositely inclined to those in the other end.

5. The combination with a piano bridge and wires crossing the same, of an agraffe

comprising a base having upturned ends, securing devices securing the agraffe to the bridge in an obliquely disposed position relative to the piano wires, and oppositely
5 inclined wire-receiving notches in the opposite ends of said agraffe.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

ROBERT M. HUTCHINSON.

Witnesses:

CHAS. PANKOW,
FRANK GROTE.