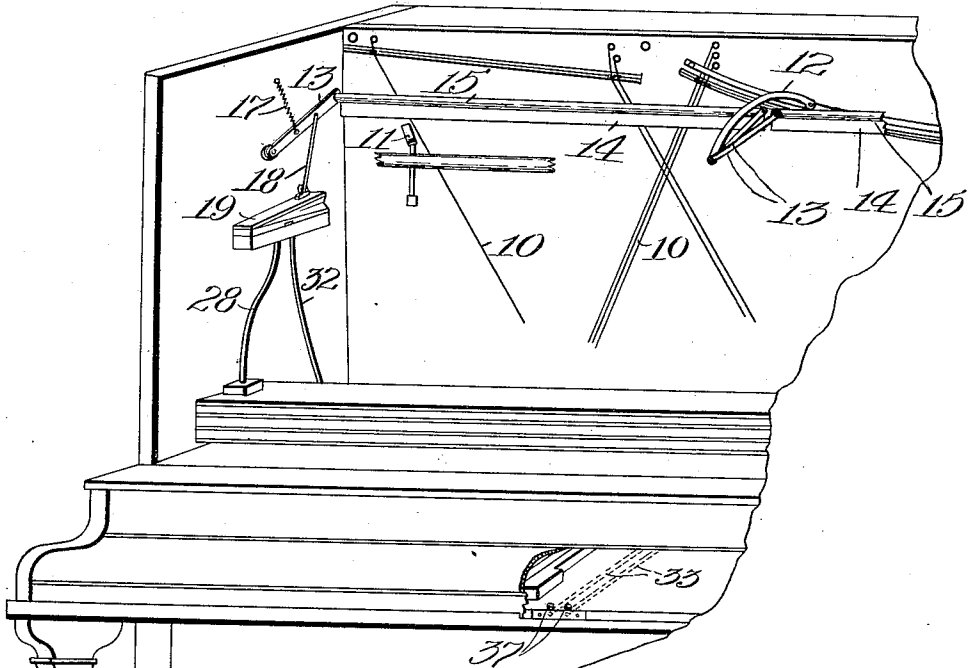


A. KRELL & P. WELIN.  
 TONE SOFTENING DEVICE FOR MUSICAL INSTRUMENTS.  
 APPLICATION FILED SEPT. 8, 1908.

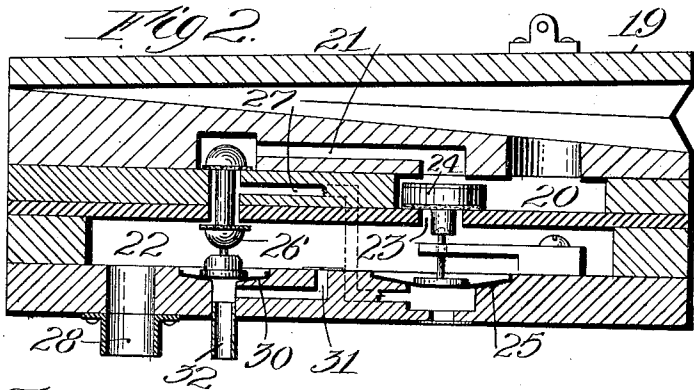
1,032,844.

Patented July 16, 1912.

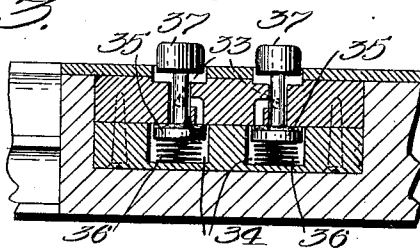
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:  
 C. F. Mason  
 W. E. Regan

Inventors  
 Albert Krell  
 Peter Welin  
 By Attorneys  
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 Southgate.



33 and 32 so as to raise the valves 26 and 24 and connect the chamber 20 and the operating pneumatic with the suction chamber, thus lowering the bar which is connected therewith. This interposes the piece of felt between the hammers and strings and deadens the tone.

It will be seen that both or all of the sections or rails can be operated independently of each other in this way, and that there will be no possibility of the device failing to work if the air suction is maintained. It will also be seen that the device will work at the same efficiency on all the hammers which it controls, and that there will be no variation from one to the other due to leakage or other causes which have been the case with some modulating devices heretofore proposed; also that the whole device is exceedingly simple and inexpensive, and easily repaired if it should get out of order and that while capable of general use, it is particularly adapted to pneumatic musical instruments in which there is a source of air tension at hand.

While we have shown and described a preferred form of the invention, we are aware that many modifications may be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claim. There-

fore, we do not wish to be limited to all the details of construction shown and described, but

What we do claim is:—

In a musical instrument, the combination with the case, key-bed and hammers, of a lever pivoted at each end of the case, an inside support projecting forwardly from the back of the case having a pivot in line with the pivots of said levers, additional levers pivoted on the pivot of said support, a muffler bar having a flexible strip depending therefrom supported by each pair of said levers, and pneumatic means mounted at the inside of the ends of the case for independently moving each of said pairs of levers so as to bring the bars in position to soften the blows of a part of the hammers of the instrument.

In testimony whereof we have hereunto set our hands, in the presence of two subscribing witnesses.

ALBERT KRELL.  
PETER WELIN.

Witnesses as to signature of Albert Krell:

F. A. CHITWOOD,  
MAYME I. HEEB.

Witnesses as to signature of Peter Welin:

A. E. FAY,  
C. FORREST WESSON.

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