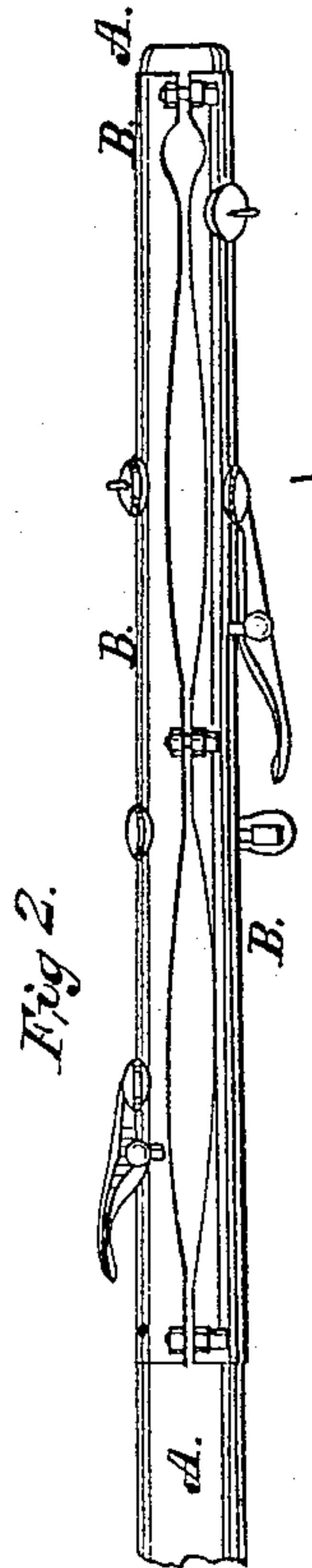
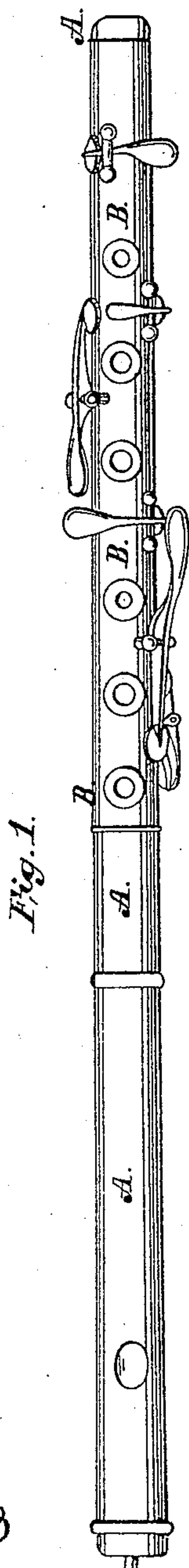


W. Fischer,

Flute,

N^o 85,222.

Patented Dec. 22, 1868.



Attest:
W. C. Ashkett
per A. Morgan

Inventor:
W. Fischer
per Munn
Attys.

United States Patent Office.

WILLIAM FISCHER, OF NEW YORK, N. Y.

Letters Patent No. 85,222, dated December 22, 1868.

IMPROVEMENT IN WIND MUSICAL INSTRUMENTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM FISCHER, of New York, in the county of New York, and State of New York, have invented a new and useful Improvement in Wind-Instruments made of wood, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of a flute to which my improvement has been attached.

Figure 2 is a view of the reverse side of the same.

Similar letters of reference indicate like parts.

My invention has for its object to improve the construction of wind musical instruments made of wood, hard rubber, and other suitable materials other than metal, so as, in the first place, to guard against the body of the instrument splitting, and, in the second place, to enable the said body of the instrument to be replaced at a trifling expense, should it become injured, prove unsatisfactory in tone, or undesirable from any other cause.

It consists in the combination of an open metallic band, to which the keys are permanently attached with the body of the instrument, as hereinafter more fully described.

A is the body of the instrument, which may be made of wood, hard rubber, ivory, or other suitable material other than metal, and about the construction of which there is nothing new.

B is an open band, fitted around that part of the body, A, of the instrument in which the stops are formed.

The band B is made of such a size as to almost but not quite meet at a sufficient number of points to securely attach it to the said body A its edges between said points being cut away slightly, as shown in fig. 2,

so as to allow the band to give, to accommodate itself to the swelling of said body A.

Upon the points of the edges of the open band B that come nearest together, are formed ears, through which small screws are passed, which enable the said band B to be clamped to the said body A with any desired closeness.

The ears to which the keys C are pivoted are soldered or otherwise permanently attached to the open band B, so as to be removed from the body A of the instrument with the removal of the said band B.

The metal around both the finger and key-stops is cut away, as shown in fig. 1, so that the stopping, both by the fingers and by the keys, may always be done upon the body A, and never upon the metal band B. This guards against any effect being produced upon the currents of air from the unequal expansion of the body A and band B.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

1. The combination of an open band, B, having the keys permanently attached to it, with the body A of the instrument, substantially as herein shown and described, and for the purpose set forth.

2. Permanently attaching the keys C to the open removable band B, substantially as herein shown and described, and for the purpose set forth.

3. Cutting the band B away around the finger and key-stops, either or both, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 27th day of April, 1868.

WILLIAM FISCHER.

Witnesses:

JAMES T. GRAHAM,
WM. F. MCNAMARA.