

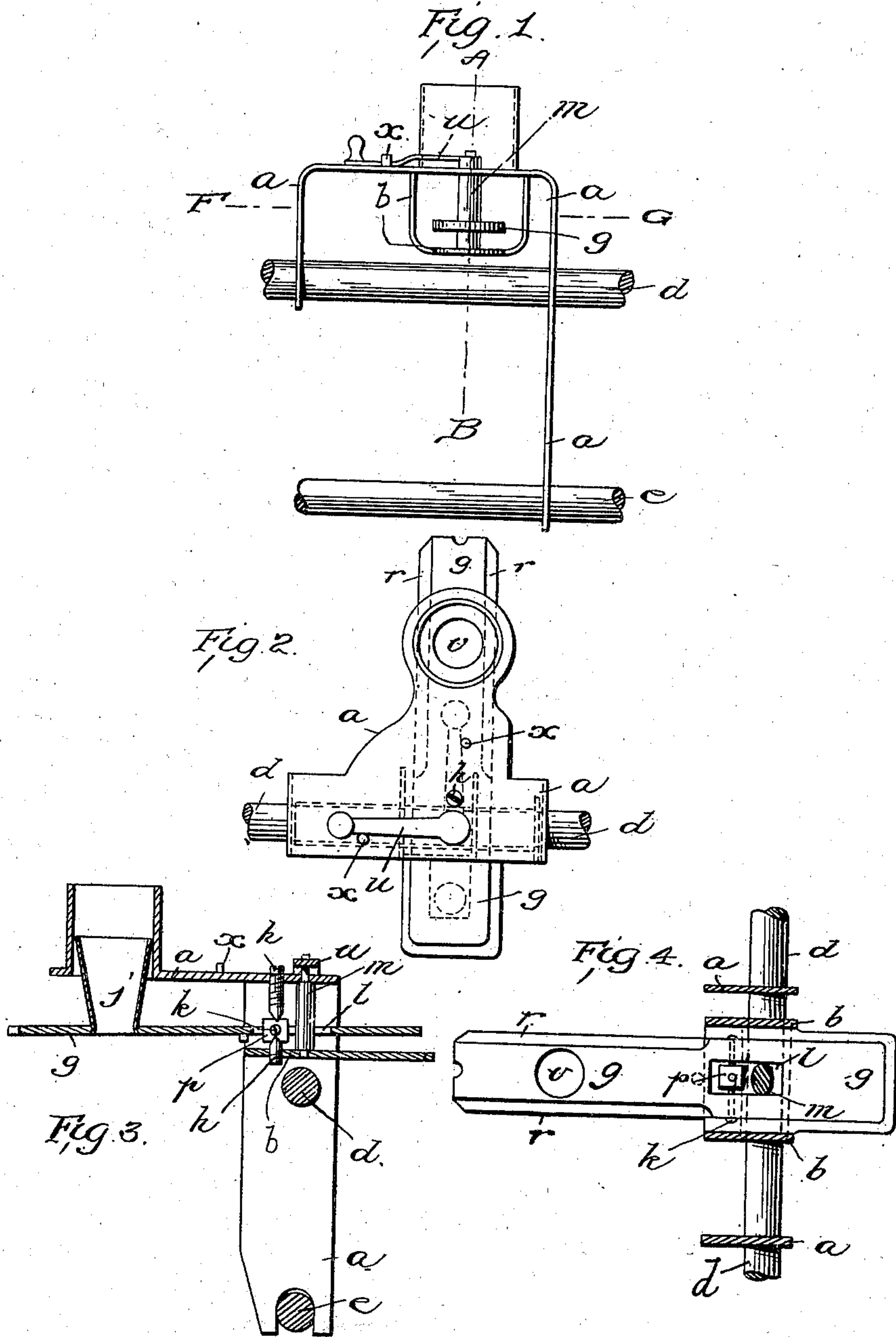
No. 708,581.

Patented Sept. 9, 1902.

W. PEISKER.
PHONOGRAPH.

(Application filed Jan. 9, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WILHELM PEISKER, OF BERLIN, GERMANY.

PHONOGRAPH.

SPECIFICATION forming part of Letters Patent No. 708,581, dated September 9, 1902.

Application filed January 9, 1901. Serial No. 42,620. (No model.)

To all whom it may concern:

Be it known that I, WILHELM PEISKER, residing at Berlin, Germany, have invented Improvements Relating to Phonographs, of which the following is a specification.

The present invention refers to a diaphragm-holder for holding and for guiding diaphragms in phonographs. As will be known, there are two kinds of said diaphragms—recording-diaphragms and reproducing-diaphragms. The recording-diaphragm marks into the surface of the record-cylinder a regular spiral line and must, therefore, be prevented from making any lateral movements. The reproducing-diaphragm follows the spiral line marked down by the recording-diaphragm. As any lateral pressure or any mechanical influences might cause the reproducing-diaphragm to be lifted off of the spiral line, said reproducing-diaphragm must be allowed to have free lateral play. Now the reproducing-diaphragm must move freely and unobstructedly, while the recording-diaphragm has to be held firmly in its position. Consequently the apparatus described hereinafter is arranged in such a manner that the diaphragm which happens to be in use is held according to the purpose which it has—that is to say, reproducing-diaphragms are held in a loose position and, on the other hand, recording-diaphragms are held in a secured position.

In the accompanying drawings, Figure 1 is a front view of the invention with parts omitted. Fig. 2 is a plan view. Fig. 3 is a sectional view on line A B of Fig 1. Fig. 4 is a plan view, partly in section.

In the drawings I have shown only enough of the ordinary apparatus as is necessary to a complete understanding of my invention.

In Fig. 1, *a* is the instrument-frame of a phonograph arranged in the usual manner on two guide-bars *d* and *e*, so that it can be moved.

The instrument-frame has the form of a bent frame supported within a bridge *b*. The bridge *b* and the instrument-frame *a* consti-

tute one combined part and support, by means of two pointed screws *h h*, Figs. 2 and 3, a block *p*. Said block *p* is provided with an axle or pivot *k*, upon which a flat rod *g* is supported, so that it can be moved vertically. Said rod or plate *g* can move horizontally, because the block *p*, carrying it, can swing on the pivots *k*. The plate *g* serves for holding in place the diaphragms. In order to limit the movements of the arm or plate and to allow it at times more play, a slot *l* is provided in said arm or plate *g*, through which a cam-rod *m* extends. Said rod is elliptical in cross-section and when turned, as shown in Fig. 4, it prevents lateral movement of the plate, while allowing free vertical movement. However, if the cam or locking rod *m* is given a quarter-turn then arm or plate *g* can have free lateral movement with the diaphragm. To insure the easy and convenient turning of the locking-rod *m*, it is provided with an arm *u*. Two stops *x x*, arranged on the frame *a*, serve to limit the movement of the arm, so that the locking-rod *m* can be brought speedily and without difficulty into the recording or into the reproducing position.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination, a pivoted arm for supporting the diaphragm, having a slot, and a revoluble locking-rod passing through said slot and flattened on its side, said rod being arranged to limit the lateral movement of the pivoted arm, substantially as described.

2. A holding device for recording and speaking apparatus in phonographs comprising an arm *g*, and a locking-rod *m* on which the arm is guided, said rod being flattened laterally, substantially as described.

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

WILHELM PEISKER.

Witnesses:

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WOLDEMAR HAUPT.