

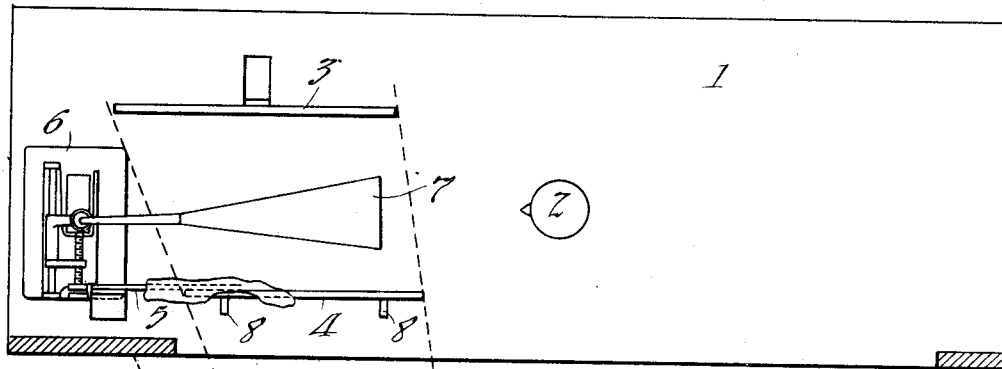
D. HIGHAM.
APPARATUS FOR OBTAINING DOUBLE RECORDS.
APPLICATION FILED DEC. 8, 1909.

1,036,236.

Patented Aug. 20, 1912.

2 SHEETS—SHEET 1.

Fig. 1



Witnesses:
Spencer Phelps
Warren F. Small.

Inventor:
Daniel Higham
by Frank L. Dyer
his Atty.

D. HIGHAM.
APPARATUS FOR OBTAINING DOUBLE RECORDS.
APPLICATION FILED DEC. 8, 1909.

1,036,236.

Patented Aug. 20, 1912.

2 SHEETS—SHEET 2.

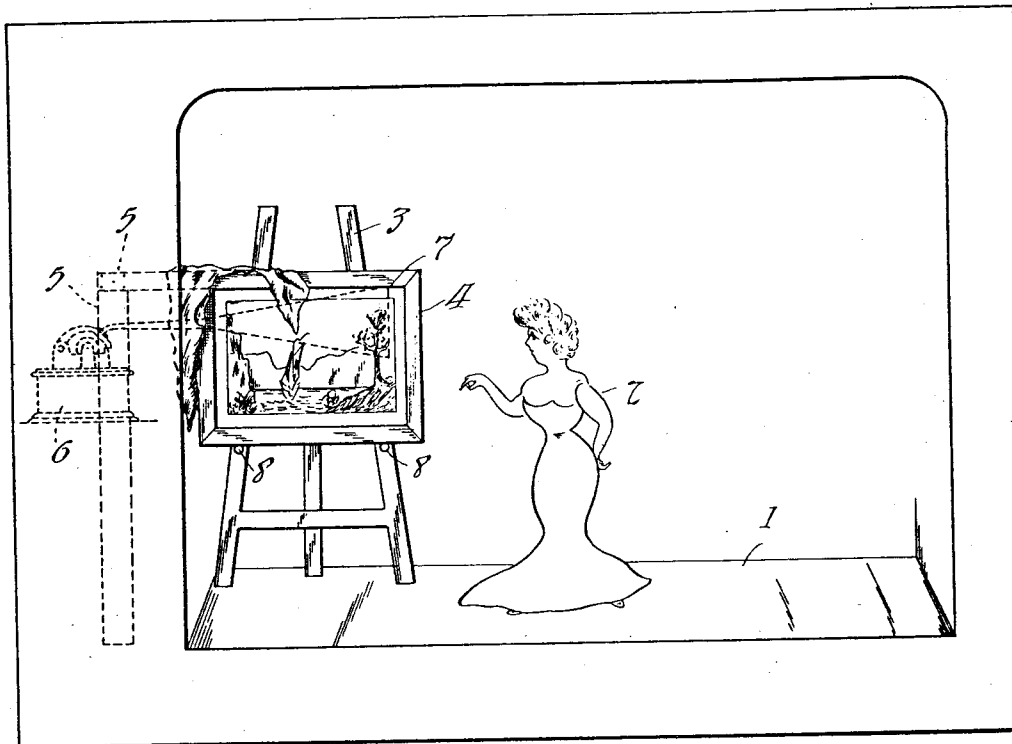


Fig. 2

Witnesses:
Frank D. Lewis
Harvey H. Small.

Inventor:
Daniel Higham
by Frank W. Green
his Atty.

UNITED STATES PATENT OFFICE.

DANIEL HIGHAM, OF NEW YORK, N. Y.

APPARATUS FOR OBTAINING DOUBLE RECORDS.

1,036,236.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Application filed December 8, 1909. Serial No. 532,087.

To all whom it may concern:

Be it known that I, DANIEL HIGHAM, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Apparatus for Obtaining Double Records, of which the following is a description.

This invention relates to apparatus for simultaneously recording a double record, one visual, the other auricular. Although the invention is particularly adapted for use with a phonograph and a motion picture camera, it is equally applicable to any apparatus for recording sound, and to any apparatus for recording pictures or views, whether of moving or of still objects. For convenience of description, the terms "recorder" and "camera" are used, together with terms descriptive of their characteristic parts. Such terms are illustrative merely, and are not in any sense used as terms of limitation.

As is well known to those familiar with the art, both the phonograph and the moving picture have become firmly established in popular favor. A demand for the combination of the two to reproduce an entire play or other scenes has arisen, and many devices for synchronizing the two are in practical operation. It has not been possible heretofore, however, to position the phonograph properly with respect to the source of sound and motion without giving undue prominence to the concealing means. After considerable experimentation, it has been discovered that by creating an optical illusion of any desired type so that an object at the front shall appear as though at the back, the desired result can be obtained easily and inexpensively.

One arrangement which has been used successfully is illustrated in the accompanying drawings, wherein:

Figure 1 is a diagrammatic plan view thereof; and Fig. 2 a front elevation of the same as it appears from the camera.

Similar reference numerals refer to similar parts throughout the drawings.

In the drawings, 1 represents a part of a room or a stage or platform of any desired kind, on which is the source of sound and motion 2. At the back is located an easel or stand 3 of any desired type. At the front is the concealing device 4, shown for convenience as a picture which is supported in-

visibly in any convenient manner, as by a light-framework 5. Between the easel and the picture, the recording apparatus 6 is placed, preferably either partly beyond the stage opening or beyond the field of the camera. In this preferred form as illustrated, part of the recording apparatus, as the horn 7 extends in close proximity to the source of sound and motion. It will thus be evident that although the phonograph is in its desired place close to the source of sound and motion, it will be excluded from the field of the camera. No means for concealing the phonograph will be apparent from the camera, the result being a picture representing the scenic settings in their usual inconspicuous place at the rear. This is due, as will be evident, to the fact that the position of the easel at the rear is apparent from its contact with the floor, but as the picture has no visible means of support by which it can be visually located, it naturally will be associated with the easel and appear to be mounted thereon. The effect is especially pronounced in a reproduced picture, as the camera reproduces the same from but one angle. To heighten the illusion, the usual easel studs are omitted from the easel and fastened to the picture, as shown at 8. The camera is shown at 9.

Many modifications, all within the scope of this invention, will be apparent. In short, the invention consists in mounting any suitable concealing device in the front of the scene in such a way as to make it appear located in the back of the scene.

Having thus disclosed one embodiment of my invention, what I claim and desire to secure by Letters Patent is:

1. In combination, a camera, sound recording apparatus, and means comprising spaced members respectively in front and in back of said apparatus for forming an optical illusion, said means being adapted to exclude said apparatus from the field of the camera, substantially as described.

2. In combination, a camera, a phonograph extended adjacent to a source of sound and motion, a concealing device in front of the phonograph, and means removed at a distance in back of said device arranged to create the optical illusion that the said device is adjacent thereto, substantially as described.

3. In combination, a camera, a phonograph having its horn extending therefrom

adjacent to a source of sound and motion, a
concealing device in front of the phono-
graph, means a distance in back of said de-
vice arranged to create the optical illusion
5 that said device is adjacent thereto, and
concealed means to support said device, sub-
stantially as described.

4. In combination, a camera, a phono-
graph having its horn extending therefrom
10 adjacent to a source of sound and motion,
a concealing device in front of said phono-
graph, concealed means to support the con-
cealing device, and means at the rear of the
phonograph so arranged in reference to the
15 concealing device and to the camera as to
create an optical illusion that said conceal-
ing device is located on said means at the
rear of the phonograph, substantially as de-
scribed.

20 5. A device adapted to create an optical
illusion, consisting of a concealing device,

concealed means to support the same, and
means removed at a distance therefrom and
arranged to create the optical illusion that
the concealing device is connected therewith, 25
substantially as described.

6. In combination, a camera, sound re-
cording apparatus, and means for excluding
said apparatus from the field of the camera,
said means comprising a picture in front of 30
said apparatus and an easel in back of said
apparatus so arranged with reference to said
picture and camera as to create the optical
illusion that said picture is supported there-
on, substantially as described. 35

This specification signed and witnessed
this 3rd day of December 1909.

DANIEL HIGHAM.

Witnesses:

WARREN H. SMALL,
JOHN M. CANFIELD.

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