

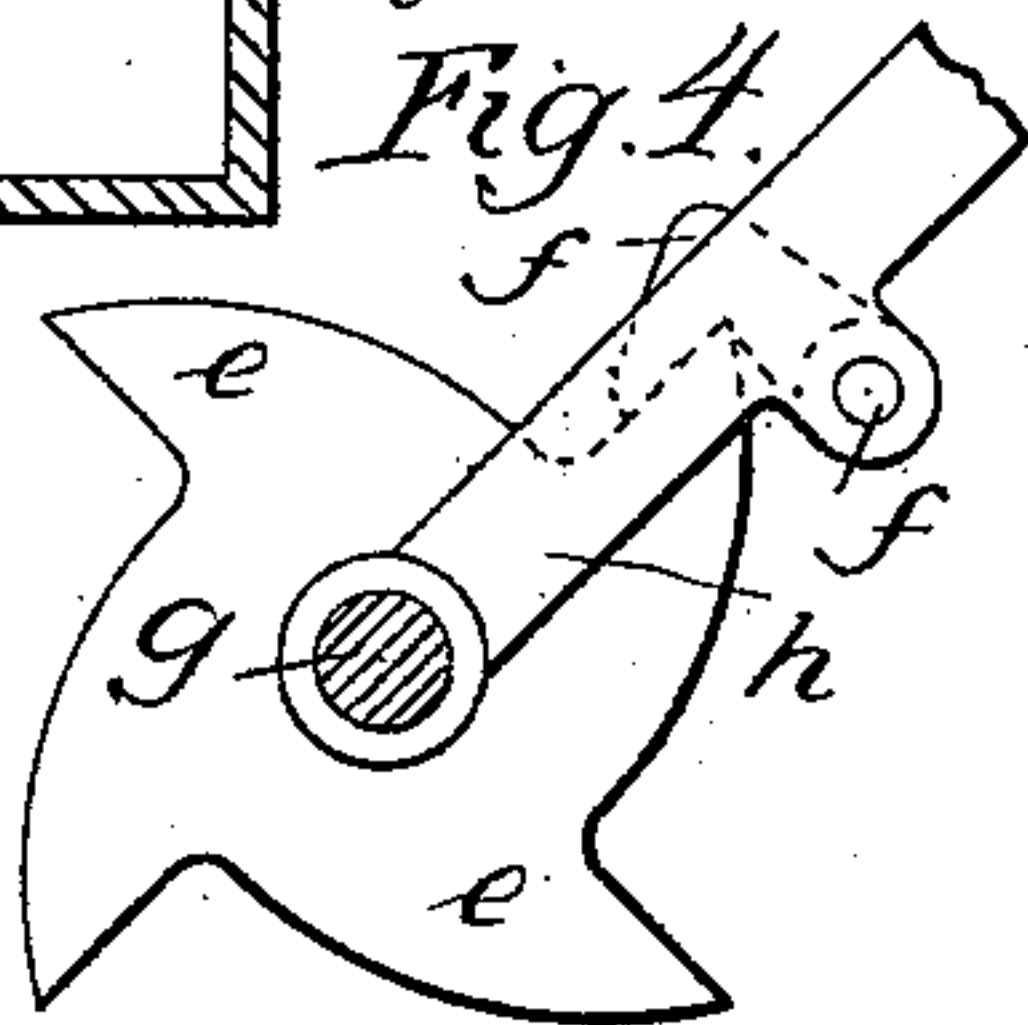
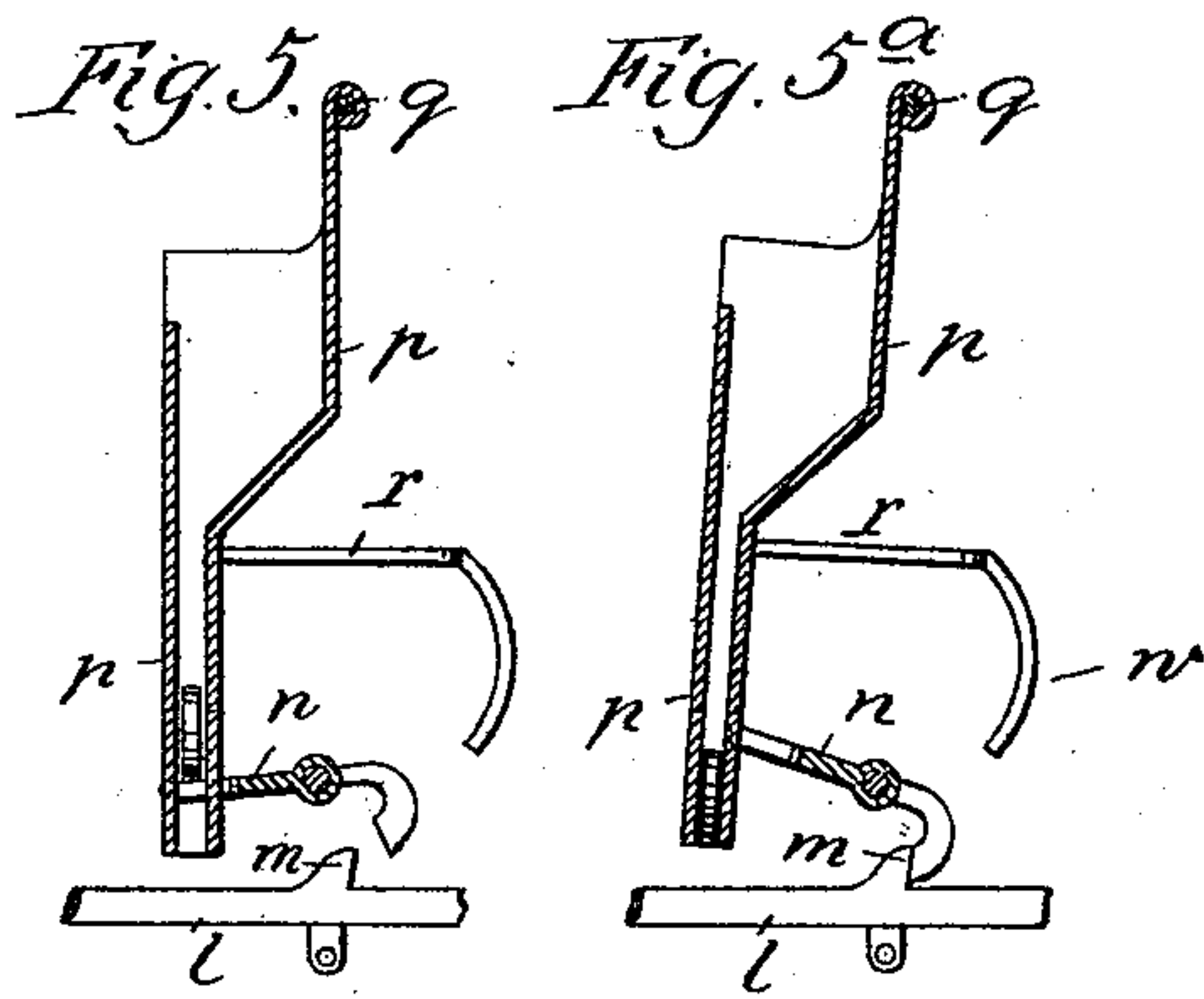
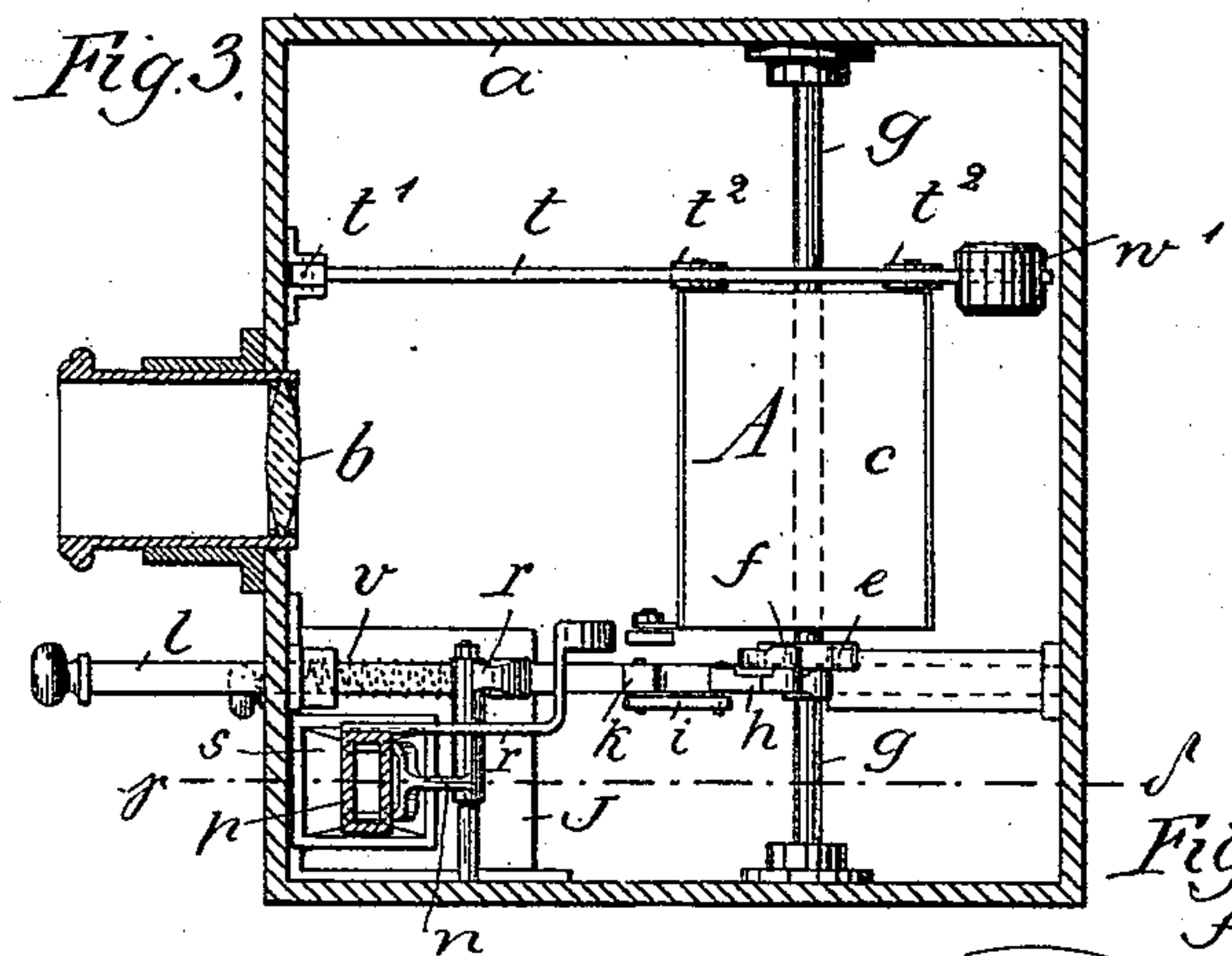
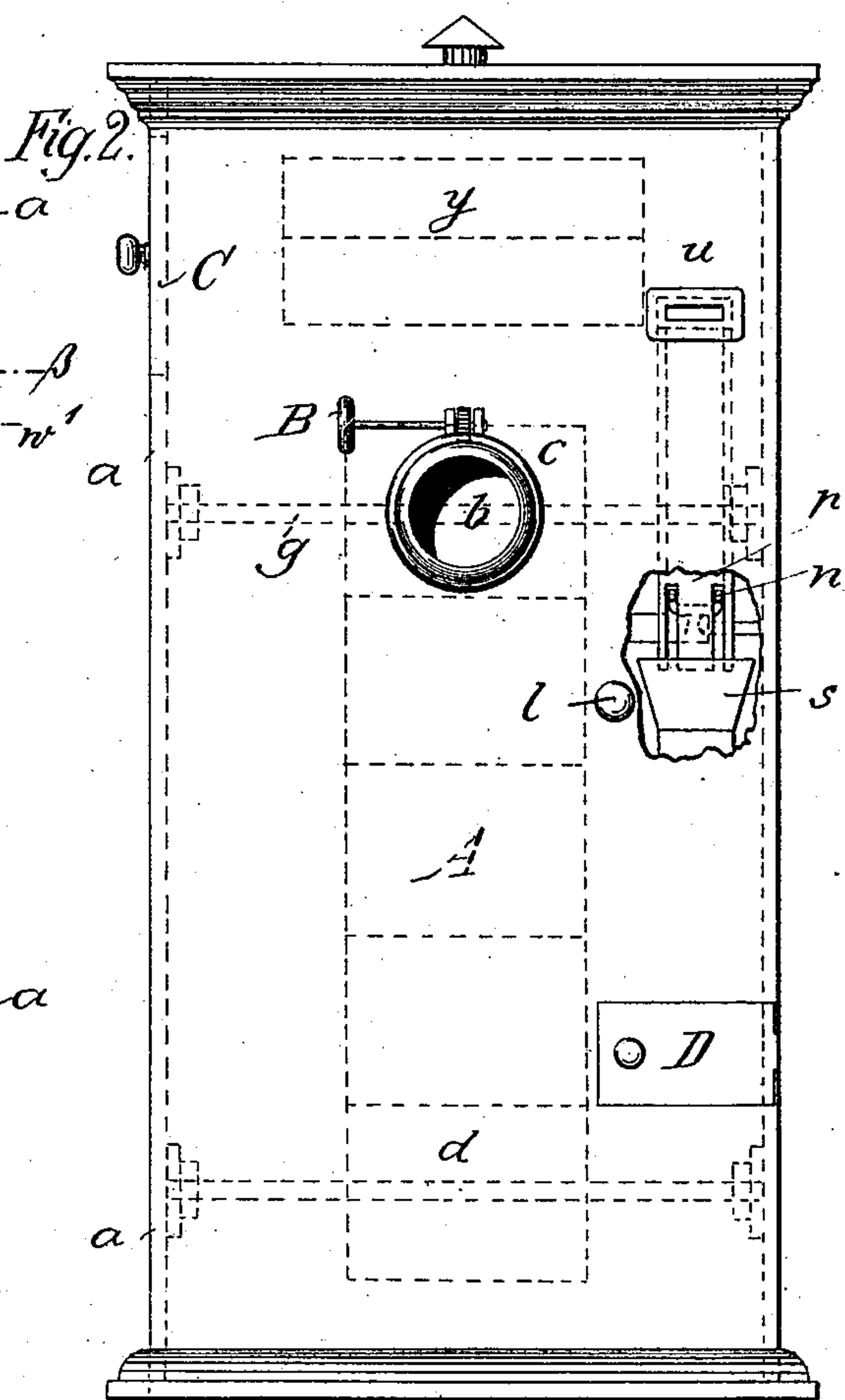
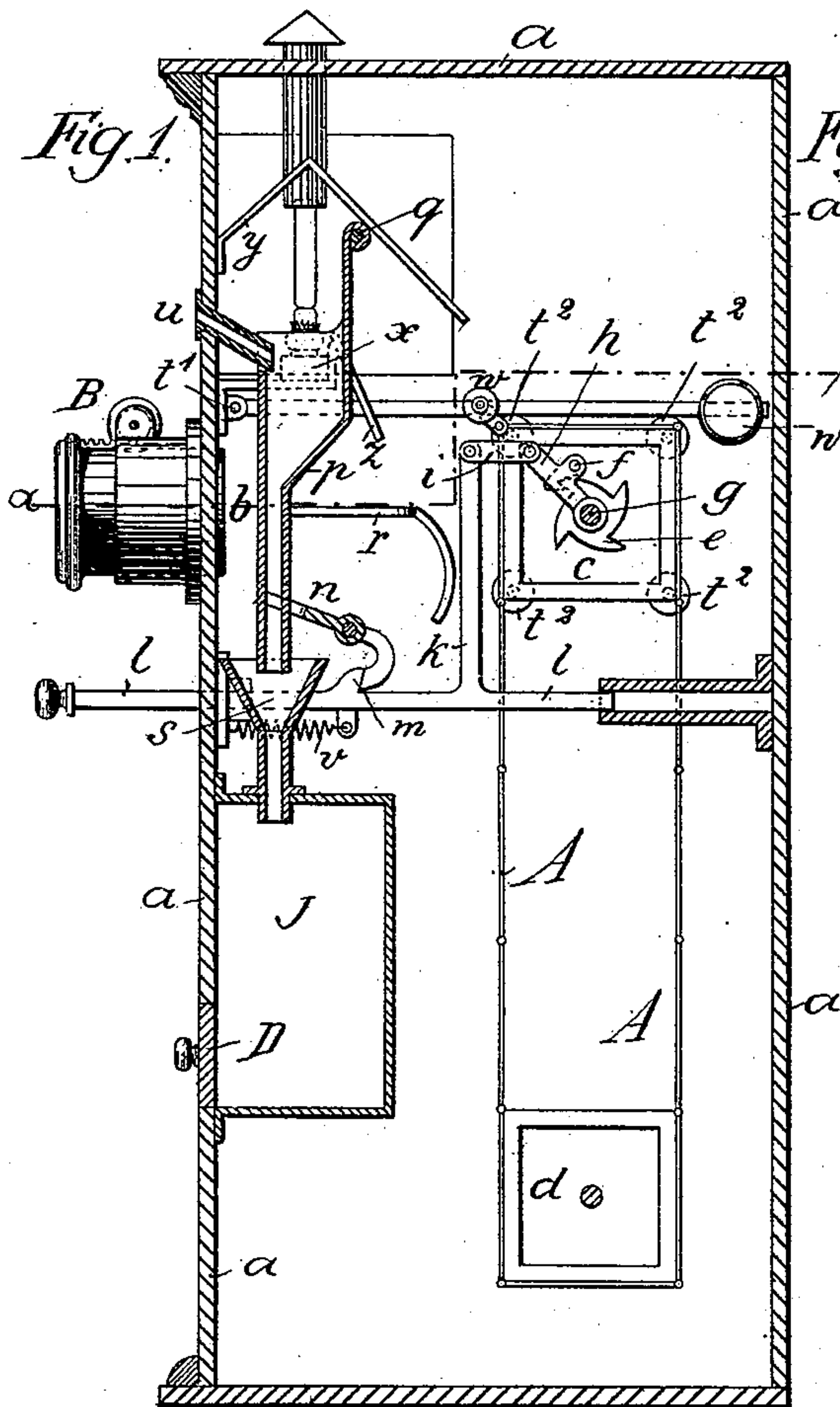
(No Model.)

C. BACH.

AUTOMATIC PICTURE EXHIBITOR.

No. 396,455.

Patented Jan. 22, 1889.



Witnesses:
Norman
G. Mitzel

Inventor:
Conrad Bach
by *A. H. Hunt & R. F. Folsom*
attys.

UNITED STATES PATENT OFFICE.

CONRAD BACH, OF ST. GALLE, SWITZERLAND.

AUTOMATIC PICTURE-EXHIBITOR.

SPECIFICATION forming part of Letters Patent No. 396,455, dated January 22, 1889.

Application filed June 6, 1888. Serial No. 276,271. (No model.) Patented in Germany March 6, 1888, No. 10,732; in France March 6, 1888, No. 176,166; in England March 6, 1888, No. 2,375; in Austria-Hungary March 6, 1888, No. 3,478, and in Belgium March 15, 1888, No. 80,896.

To all whom it may concern:

Be it known that I, CONRAD BACH, a citizen of the Federation of Switzerland, and a resident of St. Galle, in Switzerland, have
5 invented certain new and useful Improvements in Automatic Picture or Photograph Exhibitors, (for which I have applied for patents in the following countries: Germany, No. 10,732; France, No. 176,166; England, No.
10 2,375; Austria-Hungary, 3,478, all dated March 6, 1888, and in Belgium, No. 80,896, March 15, 1888,) of which the following is a specification.

My invention relates to improvements in
15 automatic picture or photograph exhibitors, which, on dropping a coin in, releases a handle, which, on being pulled, brings different pictures in view, and when a certain number of pictures have passed before the sight-glass
20 the pictures are prevented, by mechanism, which will be afterward explained, from being further turned, and remains so till another coin is dropped in again, when they can be further turned.

25 In order to make my invention clear I refer to the accompanying drawings, which form part of this application, and in which similar letters denote similar parts throughout the different figures.

30 Figure 1 is a side view of my improved exhibitor with a part of one of the sides removed in order that the working mechanism may be seen. Fig. 2 is a front view of the same. Fig. 3 is a section through the line $\alpha\beta$
35 of Fig. 1, as seen from above. Figs. 4 and 5 are detail views of the operating mechanism. Fig. 5^a shows a side section of the money-chute p when it is shoved to the side by the roller w on the chain of pictures coming
40 against the lever r , and thus shoving the coin from off the end of the lever n .

The construction of the apparatus is as follows: In the box a is a shaft, g , on which is a four-cornered drum, c , over which a chain of
45 pictures, A , runs, and is guided over the roller d below. Loose on the shaft g is the lever h , the end of which is fastened to the arm k of the rod l by the link i . On the lever h is a pawl, f , which catches in a ratchet-wheel, e ,
50 fastened on the end of the drum c . When

the rod l is pushed in, the lever h is moved round, and with it the pawl f , which catches in the wheel e and moves it round, and with it the drum c ; but the rod is locked by the lever n catching on the nose m , which is only
55 released by lifting the lever n , which is accomplished by dropping a coin into the slit u .

The working of the apparatus is as follows: On dropping a coin of a certain weight into the slit u it falls down the guide p and alights
60 on the end of the lever n , which passes through the money-chute and lifts the other end free of the nose m and allows the lever h to be shoved backward and forward by the backward-and-forward movement of the rod l .
65 The drum c is turned round by means of the pawl f and ratchet-wheel e , one stroke of the rod l turning the drum one-quarter round, as there are only four teeth in the ratchet-wheel
70 e . Over the drum c runs the endless chain of pictures A , and at each quarter of a revolution of the drum c a new picture is brought opposite the peep-hole b . The rod l is free to be worked and the drum c to turn till the
75 chain of pictures A has made one complete round. Then the rod l is locked again in the following manner: On the chain of pictures
80 A is a projecting roller, w , fastened, which, when it comes round to the bent lever r , shoves it aside. The lever r is fastened to the money-chute p , which is hinged at q . On the lever
85 r being shoved to the side it moves the money-chute also into the position, as seen in Fig. 5^a, and shoves the coin off the end of the lever n . The lever n , being released from the weight
90 of the coin, falls back into its normal position again, fastening the rod l by catching on the nose m . The rod l is always drawn back into its inactive position by the spring v . When the projecting roller w has pushed the
95 coin off the lever n , it falls through the funnel s into the money-box J , from out of which it can be removed by opening a small door at D .

In order to illuminate the pictures there is
100 a lamp, x , placed before them, the light of which is thrown on the pictures by the reflector y and z . The door C allows of the lamp being removed for cleaning.

In order to keep a picture square opposite

the lens *b* there is a lever, *t*, hinged at *t'*, which rests on the rollers *t*² of the drum *c*. The lever *t* is provided with a weight, *w'*, at its free end, which rises with the lever *t* as the drum
5 *c* is turned and falls again on the rollers and keeps them in the proper position.

Having now fully described my invention, what I desire to claim and secure by Letters Patent in the United States is—

10 1. In an automatic picture-exhibitor, a chain of pictures supported on two drums having flat sides or faces of equal dimensions and revolving on suitable shafts, in combination with a ratchet-wheel rigidly mounted on one of said
15 drum-shafts having the same number of teeth as each of said drums has sides or faces, a lever bearing a pawl to operate said ratchet-wheel, and a push-rod connected to said lever, substantially as described.

20 2. In an automatic picture-exhibitor, a chain of pictures supported on two drums revolving on suitable shafts, in combination with a ratchet-wheel rigidly mounted on one of said shafts, a lever bearing a pawl to operate said
25 ratchet-wheel, a push-rod connected to said lever, a spring to restore said push-rod to its

normal position when removed therefrom, and a pivoted lever, one end of which is in locking-contact with said push-rod and the other end of which extends into a pivoted coin-chute, 30 substantially as and for the purpose specified.

3. In an automatic picture-exhibitor, a pivoted coin-chute having a rigid arm attached thereto, in combination with a chain of pictures supported on revolving drums operated 35 by a push-rod and pawl and ratchet-wheel, a pivoted lever one end of which is in locking-contact with said push-rod and the other end of which extends into said pivoted coin-chute, and a projecting roller attached to the edge 40 of said chain of pictures, so that as the chain revolves the roller will come in contact with the arm of the chute and push said chute slightly from said chain of pictures, in the manner and for the purpose set forth. 45

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

CONRAD BACH.

Witnesses:

GEORGE WELTE,
XINTOS HAUSER.