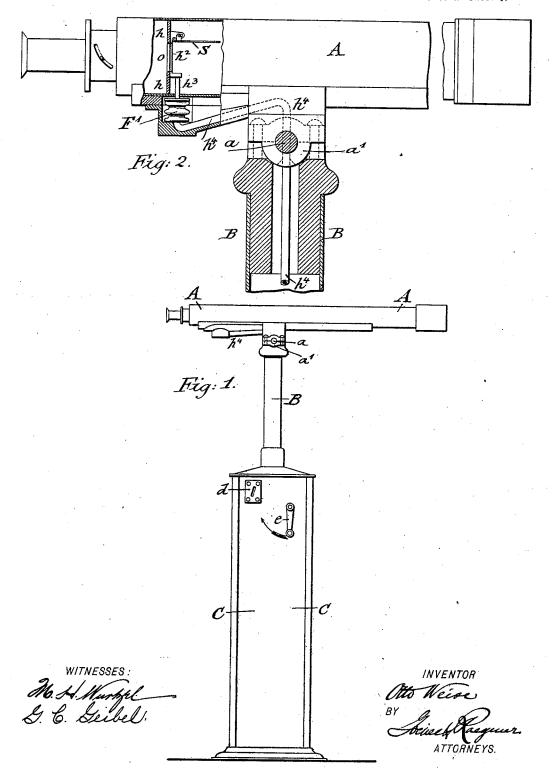
O. WEISE. COIN OPERATED TELESCOPE.

(Application filed June 6, 1899.)

(No Model.)

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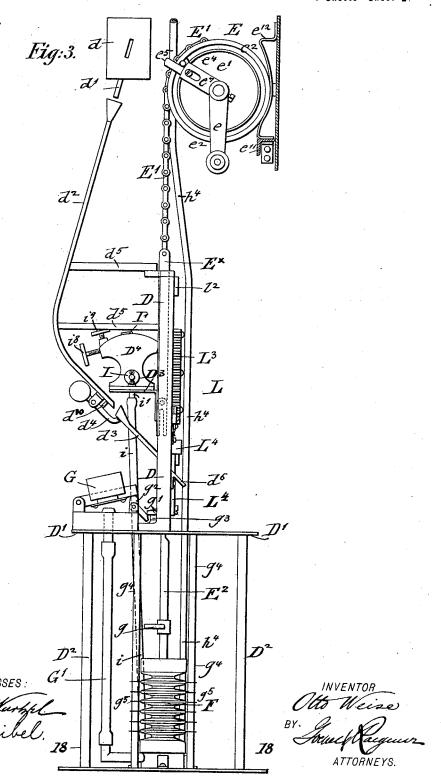


COIN OPERATED TELESCOPE.

(Application filed June 6, 1899.)

(No Model.)

7 Sheets—Sheet 2

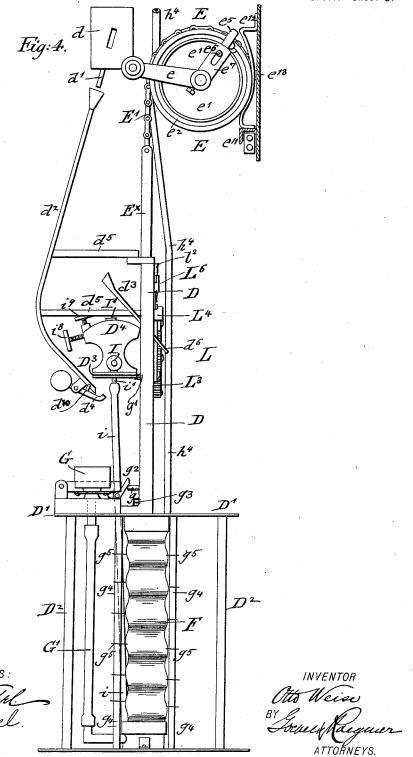


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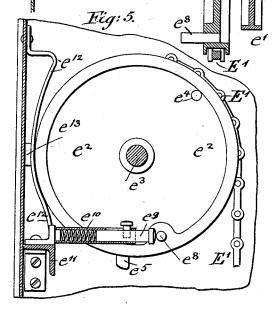
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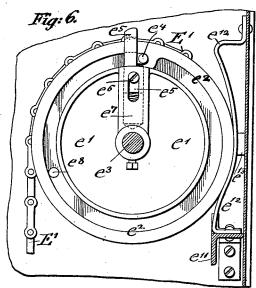
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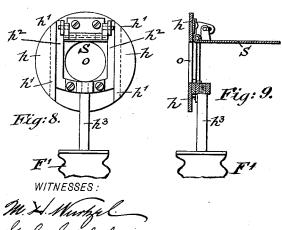
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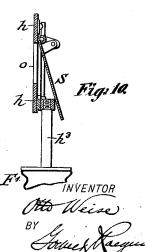


COIN OPERATED TELESCOPE. (Application filed June 6, 1899.) (No Model.) 7 Sheets-Sheet 4.







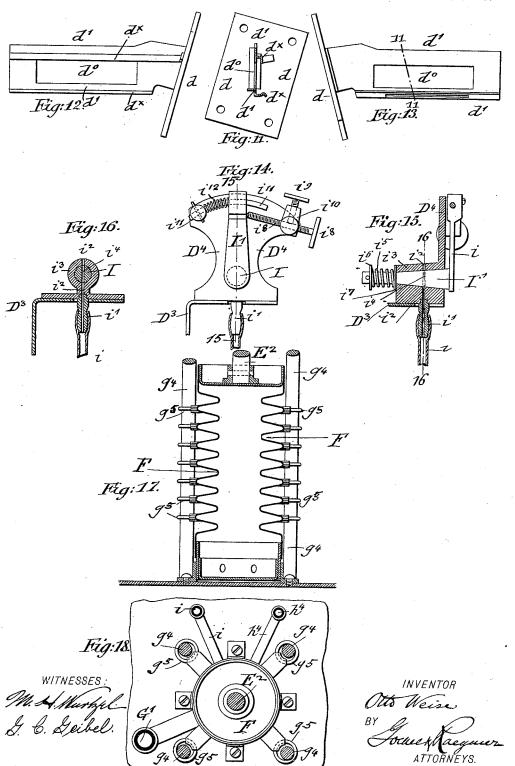


COIN OPERATED TELESCOPE.

(Application filed June 6, 1899.)

(No Model.)

7 Sheets-Sheet 5.

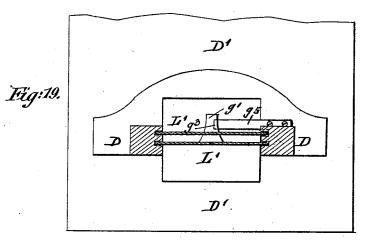


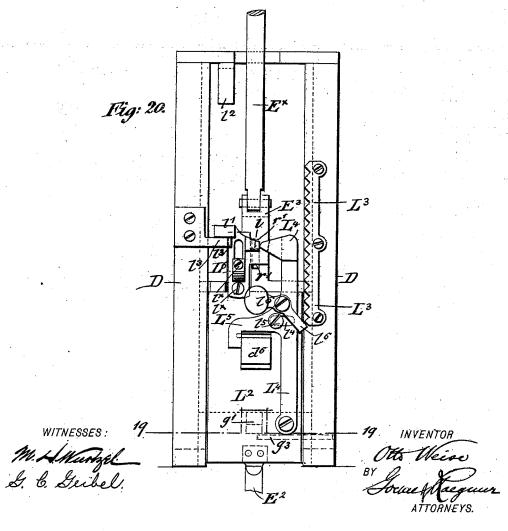
COIN OPERATED TELESCOPE.

Application filed June 6, 1899.)

(No Model.)

7 Sheets—Sheet 6.



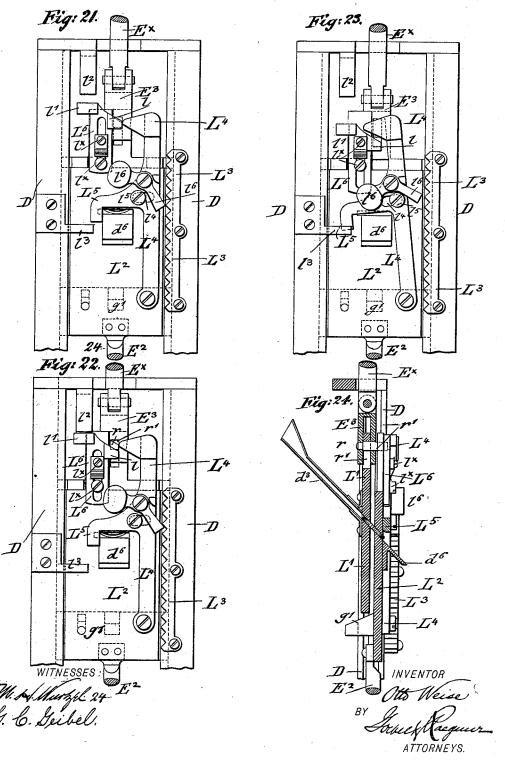


COIN OPERATED TELESCOPE.

(Application filed June 6, 1899.)

(No Model.)

7 Sheets-Sheet 7.



UNITED STATES PATENT OFFICE.

OTTO WEISE, OF JERSEY CITY, NEW JERSEY.

COIN-OPERATED TELESCOPE.

SPECIFICATION forming part of Letters Patent No. 645,771, dated March 20, 1900.

Application filed June 6, 1899. Serial No. 719,523. (No model.)

To all whom it may concern:

Be it known that I, OTTO WEISE, a citizen of the United States, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Coin-Operated Telescopes, of which the following is a specification.

This invention relates to an improved telescope which on the dropping of a coin can 10 be used for a certain predetermined length of time, the ocular being closed automatically on the termination of that time by the operating mechanism, so that the telescope is ready for the next user, it being designed 15 for use at points on the sea-coast, towers, elevated points, mountains, &c.; and for this purpose the invention consists of a coin-operated telescope which comprises a telescope, a standard on which the same is mounted, a 20 coin-operated releasing mechanism, a crankoperated mechanism for operating the releasing mechanism permitting the dropping of the coin, a bellows operated by said crankoperated mechanism, means connecting said 25 bellows with a pneumatically-operated shutter in said telescope, and means for interrupting the pneumatic pressure on said shutter, so as to drop it and terminate the use of the telescope.

The invention consists, further, of certain details of construction, such as the coin-operated latch mechanism, means for regulating the escape of the air, and other details of construction and combinations of parts, which will be more fully described hereinafter and

finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my improved coin-operated telescope and its supporting40 stand. Fig. 2 is a side elevation, partly in vertical section, of the telescope proper and the pneumatically-operated shutter located in the same. Figs. 3 and 4 are side elevations of the coin-operated releasing mechanism and the pneumatic shutter-operating mechanism, with the inclosing casing removed and drawn on a larger scale, said mechanism being shown, respectively, in a position of rest and in a position for holding the shutter in 50 open position. Figs. 5 and 6 are sectional side elevations of the crank-operated mech-

anism for lifting the bellows and opening the shutter in the telescope. Fig. 7 is a horizontal section through the crank mechanism. Fig. 8 is a detail rear elevation of the pneu- 55 matically-operated shutter in the telescope. Figs. 9 and 10 are vertical transverse sections of the same, showing it respectively in open and closed position. Figs. 11, 12, and 13 are details of the guide-plate of the coin- 60 dropping chute. Fig. 14 is a detail side elevation of the air-escape valve. Fig. 15 is a vertical transverse section on line 15 15, Fig. 14. Fig. 16 is a detail vertical section through the air-escape valve on line 1616, Fig. 15. Fig. 65 17 is a vertical transverse section through the shutter-controlling bellows. Fig. 18 is a horizontal section on line 18 18, Fig. 3, drawn on a larger scale. Fig. 19 is a horizontal section of the releasing latch mechanism oper- 70 ated by the crank mechanism on line 19, Fig. 20. Fig. 20 is a detail elevation of the releasing latch mechanism, showing it in normal position. Figs. 21, 22, and 23 are different successive positions of the latch mechan- 75 ism; and Fig. 24 is a detail vertical transverse section of said latch mechanism on line 24 24, Fig. 22.

Similar letters of reference indicate corre-

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sponding parts.

Referring to the drawings, A represents a telescope of the usual approved construction. The main tube of the telescope A is supported by trunnions a in horizontal bearings a' at the upper end of a hollow standard B, which 85 is again supported on an upright casing C of rectangular cross-section, in which the coinoperated parts of the telescope are located. The coin-operated parts serve for the purpose of opening a pneumatically-hinged shutter 90 S, that is arranged in the main tube of the telescope A at the end containing the ocular, and consist of a coin-chute, a latch mechanism, the parts of which are coupled together by the coin conducted thereto, a crank mech- 95 anism by which said latch mechanism is operated after the coin is dropped, and a main bellows, which is quickly extended by the operation of the crank and latch mechanisms and slowly returned to its normally-collapsed 100 position, said bellows actuating an auxiliary bellows, which holds the shutter in open position while the main bellows is returning to its normal position and which closes the shutter on the collapse of the main bellows.

The coin-chute.—The coin-chute is shown 5 in Figs. 4, 11, 12, and 13. It is arranged in the upper part of the casing C, which is provided with a slotted plate d for the dropping of the coin. This plate is provided with an inclined coin-guide d, which is arranged with 10 guideways d^{\times} at one side, that take up the coin dropped into the coin-slot of the plate d and then conduct it to the coin-tube d^2 . The lower guideway d^{\times} is provided with a slot through which smaller and thinner coins are 15 dropped before they can pass onto the cointube d^2 , the device being only operated by a coin of the proper size and thickness. Tin disks or other worthless tokens that may be tried for operating the device likewise drop 20 through the slotted way d^{\times} or through the opening d^0 in the coin-guide d'. As the coinguide d' is placed at an incline to a perpendicular line, a smaller coin is also apt to tilt over the lower way, as it is not retained by the up-25 per guideway. A coin of the required sizesuch as, for instance, a nickel—which fits exactly in the guideways, is retained and conducted by them to the coin-tube d^2 . Below the coin-guide d' is arranged the enlarged up-30 per end of the coin-guiding coin-tube d2, which communicates with the upper enlarged end of a second coin-guiding tube d^3 , the lower end of which is arranged in inclined position on one of the plates of the latch mechanism L, 35 as shown in Figs. 3 and 24. To the under side of the lower end of the intermediate cointube d^2 is fulcrumed a weighted hook d^4 , the end of which abuts against the upper end of the coin-tube d³ when the same is in its 40 normal position. The hook d^4 is provided with a pin d^{10} , which projects through an opening in the lower part of the coin-tube d^2 when the coin-tube d^3 is moved away from the hook d^4 , so as to arrest any coin which 45 may be dropped into the coin-chute while the shutter of the telescope is placed in open position. The coin is thus arrested by the pin d^{10} in the lower part of the coin-tube d^2 without producing any action of the operat-50 ing mechanism. The coin-tube d^2 is supported by horizontal arms d5, that extend from an upright guide-frame D, which is attached to a platform D', that is supported by angular uprights D², the lower ends of which are 55 attached to the bottom of the casing C. The latch mechanism L is guided in ways of the frame D and operated by a crank mechanism E, which is connected by a chain E', composed of pivot-links, with a rod Ex, attached 60 to the upper end of one of the latch-plates, while the other latch-plate is connected by a $\operatorname{rod} E^2$ with the top plate of the main bellows

attached to the bottom of the casing C.

The crank mechanism.—The crank mechanism E is shown in Figs. 5, 6, and 7 and is composed of a crank e, that is arranged at ing the crank. This produces the simultane-

F, the bottom plate of which is permanently

the outside of the casing C, as shown in Fig. 1, and of two pulleys e' and e^2 , one of which is keyed to the crank-shaft e^3 , while the other 70 is loose thereon. The hubs of the pulleys e' e^2 abut against each other, one being located in front of the other. The hub of the pulley e^2 is retained on the shaft e^3 by the collar e^{\times} . The chain E' is attached to a point on the 75 circumference of the loose pulley e^2 which carries a pin e^4 , which projects sidewise into the path of a spring-actuated finger e5, which is guided by means of a pin e^6 in a slotted radial socket e^7 on the pulley e'. A second 80 pin e^8 projects at the opposite side of the pulley e^2 at some distance from the pin e^4 and serves to abut against a sliding and springactuated buffer-rod e, that is guided in a stationary socket e^{10} , attached to a support- 85 ing-bracket e11 on the side wall of the casing This buffer-rod e^{10} serves to arrest the pulley e^2 when the same is returned into normal position, so as to neutralize the sudden jars or concussions caused thereby. A sta- 90 tionary concave plate e^{12} is attached by its bent-over ends to the side wall of the casing C and supported at its middle position by a small block e^{13} , as shown in Figs. 5, 6, and 7. When the crank e is turned, the fixed pulley 95 e' is turned with the same, its finger e⁵ engaging the pin e^4 on the loose pulley e^2 and carrying it along, so that the latch-plates, which are coupled together by the coin delivered to them by the coin-chute, are raised by 100 the action of the connecting-chain ${f E}'$ until the end of the projecting finger e⁵ contacts with the concave plate e^{12} and is pushed back against the tension of its spring until a side recess near the outer end of the finger e⁵ is 105 placed in line with the pin e^4 of the pulley e^2 and permits said pin to pass through the recess and permit the return of the pulley e^2 by the weight of the latch mechanism until its pin e^8 is arrested by the cushioning-bolt e^9 , 110 as shown in Fig. 5.

The latch mechanism.—The latch mechanism L is shown in Figs. 19 to 24 and consists of two latch-plates L'L2, which are guided in ways of the supporting-frame D. To one side 115 of the frame D is attached a stationary rackbar L³. Both latch-plates L' L² are provided with slots, the inclined sides of which register with the lower inclined end of the coin-tube The latch-plate L2 is provided with an 120 inclined guide-plate d^6 below its slot, so that the coin held in the slots of the latch-plates L' L² can slide off over the plate when its function of coupling the latch-plates together has been accomplished. On the plate L2 is 125 arranged a pivoted latch L4, which is provided with an angular arm L5, that extends over the coin-slot in the plate L2 and arrests the coin when the same is conducted from the coin-tube d^3 into the inclined slots in the 130 latch-plates L'L2, as shown in Fig. 21. When the coin is in this position in the latch-plates, the crank mechanism E is operated by turn645,771

ous raising of the latch-plates as they are coupled together by the coin until a slotted and spring-pressed slide-plate L^6 , which is guided on headed pins l^{\times} of the latch-plate L' and provided at one side with a nose l, that abuts against the head of the latch L4, and at the other side with a heel l', abuts against a fixed stop l^2 on the upper end of the guide-frame and is then shifted in downward 10 direction from the position shown in Fig. 20 to that shown in Fig. 23. The pivoted latch L^4 is provided with a slot l^4 , by which it is guided along a stationary pin l5 on the latchplate L2, said pin and slot limiting the tilting motion of the latch. A weighted pawl l⁶ is pivoted to the latch L⁴, said pawl engaging with the teeth of the rack L³ on the frame D during the upward motion of the latch-plate L² when the coin is dropped from the same, 20 but clearing the rack when the latch is in its inwardly-tilted position. Simultaneously with the depression of the slide-plate L⁶ by the stop l2 the crank mechanism is released and the chain E' and rod EX dropped instantly by 25 gravity. The rod Exis connected by a pivot- ${
m link}\,{
m E}^{
m s}$ and ${
m stud}\,r$ with the upper slotted end of the latch-plate L', and the stud r drops in the slot r' until it is arrested by the lower end of the same. During this time the latch-plates 30 are coupled together by the coin and held in raised position on the guide-frame D by the pawl l^6 , which engages one of the teeth of the rack L³. The stud r projects beyond the link E³ into the path of the recessed head of the 35 latch L4, which head abuts normally against the projecting end of the stud r' and the nose. As soon as the head of the latch L^4 is released from the nose l by the shifting of the guideplate L6, as shown in Fig. 22, and as soon as 40 the stud r is dropped to the lower end of the slot r' the head of the latch is released and the latter instantly tilted into the position shown in Fig. 23, so that its arm L⁵ releases the coin, which is dropped along the deflect-45 ing-plate d^6 into the lower part of the casing C. Both latch-plates L' L² commence then slowly to move in downward direction, as permitted by the gradual discharge of the air from the main bellows F, until the heel l' of 50 the slide-plate L^6 is engaged by the lower stop l3 on the guide-frame D, and shifted on its headed pins l^{\times} in upward direction, so as to assume its normal position and move the latch L4 sidewise, so that its arm L5 extends again 55 over the coin-slot of the latch-plate L², as shown in Fig. 20. The guide-frame D is of sufficient height to permit the lifting of the latch-plates, so as to produce the complete expansion of the main bellows F, so that when 60 the return motion of the latch-plates commences the same is in its extreme condition of expansion. The connecting-rod E², as well as the lower end of the latch-plate L², is provided, respectively, with fingers g g', which 65 serve to actuate, by means of a fulcrumed elbow-lever g^2 , a weighted valve G, which closes or opens the upper end of an air-pipe I nected with the lower part of the main bel-

G', that communicates with the lower part of the bellows F, the lifting motion of the latchplates producing, by the lower finger g, the 70 tilting of the elbow-lever g^2 and the closing of the valve G, while the return motion of the latch-plates produces, by the upper finger g', the tilting of the elbow-lever g^2 in opposite direction and the opening of the weighted 75 valve G, as shown, respectively, in Figs. 4 and 3, so as to restore thereby the atmospheric pressure in the collapsed bellows F. The finger g' on the latch-plate L² is simultaneously arrested by a stop g^5 on the platform D', (shown in Figs. 19 and 20,) all the parts of the latch mechanism being then in their normal position of rest. The outer folds of the bellows are provided with guide-rings g^3 which are guided along upright rods g^4 , that 85 are supported by the platform D' and bottom of the casing C, said guide-rings facilitating the easy motion of the bellows from its collapsed into its expanded position, and vice

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The shutter mechanism.—The shutter mechanism is shown in Fig. 2 and in detail in Figs. 8, 9, and 10. It consists of a stationary disk h in the main tube A of the telescope, which is provided with a central opening o in line 95 with the ocular and with vertical guideways h' at both sides of the same for a sliding frame h2, that is connected at its lower end by a rod h^3 with the upper end of the auxiliary bellows F' and at its upper end by slotted 100 lugs and pivots with lugs on the hinged shutter S. A tube h^4 extends from the lower end of the bellows F' in downward direction through the pivotal connection of the telescope within the tubular standard B and then 105 through the latter into the easing C and to the lower part of the main bellows, as shown in Figs. 2, 3, and 4. As soon as the expanded bellows F commences its downward motion, together with the latch mechanism, the air is 110 forced from the main bellows F into the bellows F', so as to expand the latter and lift the shutter into its horizontal or open position by the upward motion of the slide-frame h^2 . The telescope can be used for the period 115 of time that the shutter is held in open position by the bellows. As soon as the main bellows F is in collapsed position the shutter S is dropped, so as to close the opening o in the plate h by the collapse of the auxiliary 120 bellows, the slide-frame h^2 being simultaneously returned into its lower position, as shown in Fig. 10, so as to terminate the period of time for which the telescope was in use by the dropping of one coin.

The air-regulating valve.—In connection with the main bellows F is used a valve which regulates the discharge of the air from the bellows and which controls thereby the length of time required for the collapse of the bel- 130 lows and the time for which the shutter S is held open. This valve is shown in Fig. 3 and in detail in Figs. 14, 15, and 16. It is con-

lows F by means of a flexible tube i, the upper end of which is applied to a nipple i', which communicates with a channel i^2 in the casing of the valve I. The valve I is made in the nature of a stop-cock, with a tapering spigot having a diametrical bore i4. valve I is held tightly in the side of the casing i^3 by means of a helical spring i^5 , that is interposed between a washer i, retained 10 by a pin on the rear end of the valve I, and a washer i^7 at the rear end of the casing i^3 as shown in Fig. 15. When the diametrical bore i^{i} of the valve I communicates with the channel i^2 in the casing i^3 , the air can freely pass through the valve to or from the bellows. The air-regulating valve I is supported on a bracket D3, attached to the upright frame D and provided with an upwardly-extending segmental plate D4, along which moves an 20 arm I', applied to the valve I. The position of the arm is regulated by means of a set-screw i⁸, said set-screw being secured in position by means of a clamping-screw i9, which turns in the threaded guide-socket i^{10} of the 25 set-screw, as shown in Fig. 14. The upper perforated end of the arm I' of the valve I is guided along an arc-shaped rod i^{11} , between which and the supporting-socket of said rod is interposed a helical spring i^{12} , as shown 30 clearly in Fig. 14. When the arm I' is in vertical position, the diametrical bore i4 of the valve coincides with the channel i2 of the casing. By adjusting the arm I' slightly to either side of the vertical line the valve is 35 shifted so that only a portion of its diametrical bore is in communication with the channel i2 in the valve-casing, so that thereby the discharge of the air from the valve is retarded. By adjusting the discharge-port of 40 the air-valve I in this manner the period of time for which the shutter is intended to be opened can be regulated to a nicety, for the reason that the collapse of the bellows and the return of the latch mechanism into their 45 normal position is retarded when the outlet of air from the main bellows is retarded and accelerated when there is a free escape of air through the channel of the casing and bore of the valve. scope is operated as follows: When a coin of the required size is dropped into the slot of the coin-chute, it is conducted through the coin-tube d2 to the coin-tube d3 of the latch 55 mechanism L and through the same into the inclined slots of the latch-plates, so as to cou-

tarded. By adjusting the discharge-port of 40 the air-valve I in this manner the period of time for which the shutter is intended to be opened can be regulated to a nicety, for the reason that the collapse of the bellows and the return of the latch mechanism into their of air from the main bellows is retarded and accelerated when there is a free escape of air through the channel of the casing and bore of the valve.

50 Operation: My improved coin-operated telescope is operated as follows: When a coin of the required size is dropped into the slot of the coin-chute, it is conducted through the coin-tube d² to the coin-tube d² of the latch plates, so as to couple them together, as shown in Fig. 24. The coin is held in this position by the angular arm of the latch L², which extends partly over the left-hand end of the inclined slot in the latch definition of the latch plates. When the latch latch same, the weighted valve G on the air-escape pipe of the main bellows is placed in reason of the same in following the lifting more of the same in following the lifting roson of the same in follows expansion of the same in follows in the free interest in the coin the first produces the extend part the same, the weighted valve G on the air-escape pipe of the main bellows is placed in reason of the same in follows in the free interest produces the extend part the same, the weighted valve G on the air-escape pipe of the main bellows expansion of the same in following the lifting roson of the same in follows in the free interest produces the extend part the same, the view into the latch-plates. When the latch-plates are raised by the same, the weighted valve do the same,

with the finger e^5 . During the turning of the crank e both pulleys e' and e^2 are taken along with the crank-shaft and the latch- 70 plates L' L2 lifted from their initial position at the lower end of the guide-frame D until they arrive at the upper end of the same, as shown in Figs. 21 to 23. As soon as the stop of the slide-plate L6 on the latch-plate 75 L^2 abuts against the stationary stop l^2 on the supporting-frame D the slide-plate L⁶ is shifted in downward direction. During the upward movement of the latch-plates L'L' they are prevented from moving in down- 80 ward direction by the engagement of the weighted pawl with the stationary rack L³ on the guide-frame D. By the shifting of the slide-plate L⁶ the nose of the same clears the inclined head of the latch L4, as shown in 85 Fig. 22, so that the latch is permitted to tilt sidewise on its pivot and liberate thereby the coin, which is then dropped from the inclined slots of the latch-plates over the deflecting-plate d^6 into the lower part of the casing. 90 As the weighted pawl on the latch ${\rm L}^4$ is moved inwardly with the latch L1 it cannot engage the rack L3, and the latch-plates L' L2 are permitted to move by gravity in downward direction until a projecting lug g' on the latch- 95 plate L² is arrested by a stationary stop g^3 on the platform D' of the casing C. As the latch-plate L' is guided by the stop r at its upper end in a slot r' of the latch-plate L^2 , it will assume the required position toward the 100 latch-plate L2, so that their inclined coin-slots are alined ready for the next coin, while the coin-tube d^3 and the weighted pawl d^4 are returned into their normal positions. (Shown in Fig. 3.) As both latch-plates and the latch are 105 returned to their normal or initial positions with the angular arm of the latch extending over the left-hand end of the inclined slot in the latch-plate L2, it produces thereby the arresting of the next coin when the same is 110 dropped into the coin-chute. As the latchplates are supported on the platform of the casing, they cannot move into the lower part of the same. While the crank mechanism is operated and the latch-plates are raised by 115 the same, the weighted valve G on the airescape pipe of the main bellows is placed in raised position, so as to permit the free ingress of air into the main bellows and free expansion of the same in following the lifting 120 movement of latch-plates. When the latchplates are raised and the main bellows expanded to its full extent, the finger on the lifting-rod of the main bellows actuates the elbow-lever of the weighted valve and causes 125 the dropping of the latter into closed position, so that the air cannot escape through the airoutlet pipe, but only through the air-regulating valve I, which has been adjusted according to the period of time for which the 130 shutter in the telescope is to remain open, so that the telescope can be used by the person having dropped the coin for the required

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latch-plates and the collapse of the main bellows is accomplished, the upper finger of the connecting-rod of the bellows reengages the actuating elbow-lever of the weighted valve 5 G, so that the latter is raised again into the position shown in Fig. 3, whereby atmospheric pressure is reëstablished in the main bellows and the same are ready for being expanded again. The parts are now again in 10 their normal position ready to be started again by the next dropping of the coin and the turning of the crank when another person desires to use the telescope.

Having thus described my invention, I 15 claim as new and desire to secure by Letters

Patent-

1. The combination of a telescope, a shutter mechanism in said telescope, a coin-operated latch mechanism, a crank mechanism 20 for raising said latch mechanism, means for releasing the crank mechanism when the latch mechanism is raised, and means for pneumatically holding said shutter in open position during the return motion of the latch mech-

25 anism, substantially as set forth.

2. The combination of a telescope, a shutter mechanism in the same, a latch mechanism, a coin-chute for supplying a coin to said latch mechanism, a crank mechanism con-30 nected with said latch mechanism for raising the latter, means for releasing the crank mechanism when the latch mechanism is raised, a main bellows connected with the latch mechanism, and an auxiliary bellows 35 connected with the main bellows and the shutter mechanism and adapted to hold the latter open during the return of the latch mechanism and main bellows to their normal positions, substantially as set forth.

3. The combination of a telescope, a shutter in the same, a latch mechanism, a coinchute for supplying a coin to said latch mechanism, a crank mechanism for raising the latch mechanism, means for releasing the 45 crank mechanism from the latch mechanism when the latter is raised so as to permit the return of the latch mechanism, and means for pneumatically holding the shutter in open position during the descent of the latch mech-

50 anism, substantially as set forth.

4. The combination of a telescope, a shutter in the same, a latch mechanism, a coinchute for supplying a coin to said latch mechanism, a crank mechanism for raising the 55 latch mechanism after a coin is supplied to the same, means for releasing the crank mechanism when the latch mechanism is raised, a main bellows connected with the latch mechanism, an auxiliary bellows for operating the 60 shutter, a pipe connecting the main bellows with the auxiliary bellows, and an air-escape valve for regulating the return motion of the latch mechanism and the main bellows and the period of time for which the shutter is 65 held in open position, substantially as set forth.

ter in the same, a coin-operated latch mechanism, a crank mechanism for raising the latch mechanism, means for releasing the 70 crank mechanism from the latch mechanism when the latter is raised, means for pneumatically holding the shutter in open position during the return of the latch mechanism, and a valve mechanism for regulating the return 75 motion of the latch mechanism and shutterholding devices and the period of time for which the shutter is to be held in open position, substantially as set forth.

6. The combination of a telescope, a shut- 80 ter in the same, a coin-operated latch mechanism, a crank mechanism for raising the latch mechanism, means for releasing said crank mechanism from the latch mechanism when the latter is raised, a main bellows connected 85 with the latch mechanism, a valve operated by the latch mechanism so as to permit the expansion or collapse of the main bellows, an auxiliary bellows for operating the shutter, a pipe connecting the main bellows with the 90 auxiliary bellows, and an air-escape valve for regulating the return motion of the main bellows, latch mechanism and shutter, substan-

tially as set forth.

7. In a coin-operated telescope, the combi- 95 nation, with a latch mechanism composed of two independently-guided latch-plates having inclined coin-slots, and a latch having an angular coin-retaining arm, of a coin-chute composed of a drop-plate and an intermediate 100 coin-tube, a coin-arresting device at the lower end of the intermediate coin-tube, a coin-tube on one of the latch-plates for receiving the coins from the intermediate coin-tube for delivery to the coin-slots, said coin-tube engag- 105 ing the coin-arresting device, and an inclined deflecting-plate on the other latch-plate for delivering the coin after its release from the latch-plates, substantially as set forth.

8. In a coin-operated telescope, the combinion nation, with a coin-chute, composed of a dropplate and an intermediate coin-tube having a coin-arresting device at its lower end, of a latch mechanism composed of independentlyguided latch-plates having inclined coin-slots 115 and a latch having an angular coin-retaining arm, a coin-tube on the latch-plate adjacent to the intermediate coin-tube, and an inclined deflecting-plate on the other latch-plate and engaging the coin-arresting device at the end 120 of said intermediate coin-tube, substantially as set forth.

9. In a coin-operated telescope, the combination, with a coin-chute composed of a dropplate, an inclined coin-guide on the same, an 125 intermediate coin-tube and a coin-arresting device at the lower end of said intermediate tube, of a latch mechanism, composed of independently-guided latch-plates having inclined coin-slots, a coin-tube on one of said 130 latch-plates connecting the intermediate cointube with the coin-slots of the latch-plates, an inclined guide-plate on the other latch-5. The combination of a telescope, a shut- | plate and engaging the coin-arresting device

at the end of the intermediate coin-tube, and a latch having a coin-retaining arm pivoted to said latch-plates sidewise of the deflecting guide-plate, substantially as set forth.

5 10. În a coin-operated telescope, the combination, with a coin-operated latch mechanism, of a crank mechanism, composed of a rotary crank-shaft, a fixed pulley on the same, a loose pulley sidewise of the fixed pulley, a chain attached to said loose pulley and connected with the latch mechanism, and means for detaching the carrier mechanism of the pulleys so as to release them from each other and permit the return of the latch mechanism, substantially as set forth.

11. In a coin-operated telescope, the combination, with a coin-operated latch mechanism, of a crank mechanism consisting of a crank-shaft, a fixed pulley on the same, a spring-actuated and recessed finger guided on said pulley, a loose pulley adjacent to said fixed pulley, a laterally-projecting pin on said loose pulley adapted to be engaged by said connected with the latch mechanism, a stationary concave plate adapted to release the finger from the loose pulley so as to disconnect the same, and a spring-actuated cushioning device for the loose pulley, substantially as set forth.

12. In a coin-operated telescope, the combination, with a coin-operated latch mechanism, of a crank mechanism for operating the latch mechanism, consisting of a crank-shaft, a fixed pulley on the same provided with a guided and spring-actuated recessed finger, a loose pulley on said shaft sidewise of the fixed pulley, provided with a laterally-extending pin engaged by said finger, a chain connecting the loose pulley with the latch mechanism, and a stationary concave plate alongside of said pulleys and adapted to engage the finger and release it from the pin on the

loose pulley when the crank-shaft is turned, 45 substantially as set forth.

13. In a coin-operated telescope, the combination, with the crank mechanism, of a latch mechanism operated by the same, a chain connecting the crank mechanism with the latch of mechanism, means for releasing the crank mechanism when the latch mechanism is raised, a main bellows, a rod connecting the latch mechanism with the main bellows, an air-tube connected with the lower part of the 55 main bellows, a pivoted and weighted valve for opening or closing the upper end of said air-tube, and means actuated by the latch mechanism for opening or closing said valve and permitting the slow collapse of the main 60 bellows, substantially as set forth.

14. In a coin-operated telescope, the combination, with the crank mechanism, of a latch mechanism, a chain connecting the crank mechanism with the latch mechanism, means 65 for releasing the crank mechanism when the latch mechanism is raised, a main bellows, a rod connecting the latch mechanism with the main bellows, a telescope, a hinged shutter in said telescope, an auxiliary bellows con- 70 nected with the frame of the shutter, a pipe connecting the main bellows with the auxiliary bellows, and a coin-carrying device for supplying the coin to the latch mechanism so as to produce the actuation of the bellows and 75 holding open of the shutter in the telescope and the return of the shutter into closed position when the bellows are returned to their normally-collapsed position, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

OTTO WEISE.

Witnesses:

PAUL GOEPEL, M. H. WURTZEL.