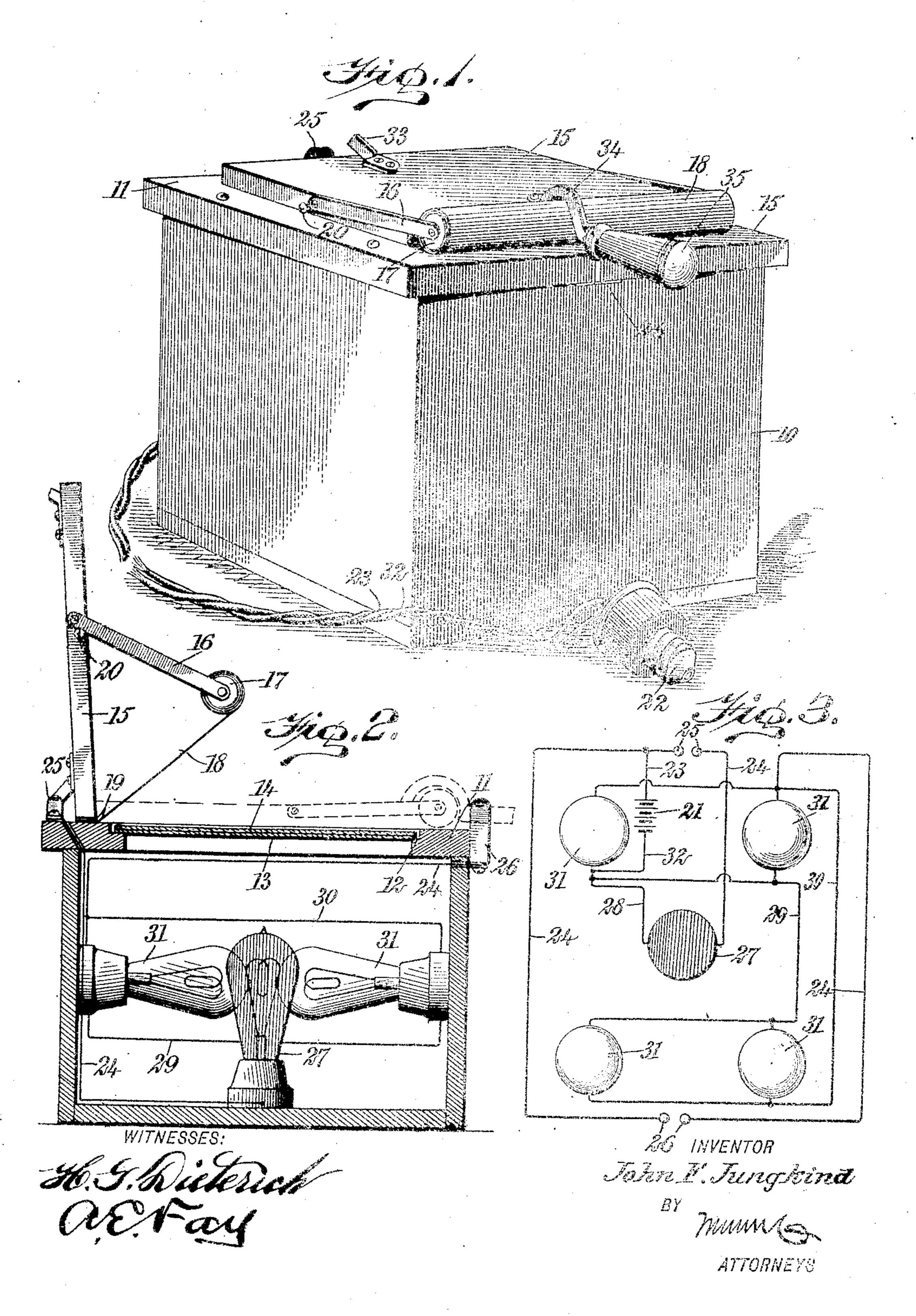
J. F. JUNGKIND. PHOTOGRAPHIC PRINTING MACHINE.

APPLICATION FILED SEPT. 28, 1905.



UNITED STATES PATENT OFFICE.

JOHN FORESTER JUNGKIND, OF LITTLE ROCK, ARKANSAS.

PHOTOGRAPHIC-PRINTING MACHINE.

No. 844,135.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filog September 28, 1905. Serial No. 280,439.

To all whom it may concern:

. Be it known that I, John Forester Junglaski and State of Arkausas, have invented a ! tive. new and Improved Photograph-Printing clear, and exact description.

vide for conveniently turning on and off the | to it through a contact plug 22 or the live. light at the desired times; for also manipu- | to it through a contact-plug 22 or the like. 20 in contact with a negative.

cation, in which similar characters of reference indicate corresponding parts in all the

25 figures. Figure 1 is a perspective view of a device constructed in accordance with the principle

30 grammatic view showing the electrical con-

nections.

I provide a casing 10, having a top 11, provided with a ledge 12 for receiving a glass plate 13 and a negative 14, which may be 35 either a plate or a film. The casing is also provided with a cover 15, hinged to the casing at a point beyond the ledge and adapted to be closed down over the plate 11. This cover is provided with a pair of arms 16, piv-40 oted to the cover and carrying a roll 17, upon which is wound an opaque sheet 18, of paper or other material. This roll is provided with . a spring such as is ordinarily used in the case of shade-rollers. This spring operates to 45 keep the sheet rolled up upon it unless forced to unroll by some outside agency. One endof the sheet is secured to the plate 11 at a point 19. The cover 15 is provided with a pair of stops 20 for the arms 16. The oper-50 ation of this part of the device is as follows: | the bridge 26 and throws on the white lights the resiliency of the spring in the roll 17. When the cover is lowered to the position the surface of the negative or glass plate, and lin opened position, while both of the bridges

the forcing of the cover down causes the roll to travel along toward the front of the case KIND, a citizen of the United States, and a | and the sheet 18 to unwind and spread over resident of Little Rock, in the county of Pu- | the entire surface of the glass plate or nega- 60

In order to provide for illuminating the Machine, of which the following is a full, device from within, the following connections are shown: In Fig. 3 I have illustrated a My invention relates to a device for use in | source of power 21; but it will be understood 65 to printing photographs by artificial light. that the source of power is ordinarily out-The principal objects thereof are to pro- side the casing and the power is transmitted lating a red light in a most convenient man- ! This is connected, by means of a wire 23, with 7° 15 ner, so that it will always be lighted when | a conductor 24 within the casing. This condesired and extinguished when it is not need- | ductor is provided with two bridges 25 and ed; to provide for printing both from plates | 26. From the former of these bridges the and from films, and, furthermore, to provide | conductor 24 extends to a red lamp 27 and for conveniently holding the printing-paper | from that through a conductor 28 to a con- 75 ductor 29. Located in parallelism with the Reference is to be had to the accompany-| conductor 29 is a conductor 30, with which ing drawings, forming a part of this specifi- | the other end of the conductor 24 is connected. Located between the two conductors 29 and 30 are a series of white lights 31. 80 The conductor 29 is connected with the source of power by a wire 32. It will be observed that upon closing the bridge 25 by of my invention. Fig. 2 is a transverse sec- | placing a conductor between the two tertional view of the same, and Fig. 3 is a dia- | minals thereof a current will be sent from 85 the source of power through the conductor 23, a portion of the conductor 24, the bridge 25, the red light 27, the conductor 28, and the wire 32 back to the source of power. If the bridge 25 is open and the bridge 26 closed 9° by a conductor, the current will be transmitted through another part of the wire 24 to the bridge 26, to the conductor 30, and from that through the white lights 31, through the conductors 29 and 32 back to the source 95 of power. In order to provide for conveniently operating these bridges and closing and opening them at the proper times, I have located them at the front and rear sides of the casing, as indicated in the drawings, and 100 I have provided the cover 15 with a pair of metal plates 33 and 34, adapted to close the bridges when the cover is in the proper position. These plates are so constructed that when the cover is closed the plate 34 closes 105 When the cover is raised, the parts assume | and so that when the cover is thrown back to the position shown in Fig. 2 on account of | the position shown in Fig. 2 the plate 33 closes the bridge 25 and throws on the red light. This plate 33, acting in connection with the 110 shown in dotted lines, the roll passes along | bridge 25, also acts as a stop to hold the cover

25 and 26 may be formed of pairs of resilient | resilient plates assist in holding the cover in plates adapted to clasp the plates 33 and 34 either closed or open position. so as to assist in this operation. The plate | 2. A printing device, comprising a casing, 34 is provided with a handle 35 for operating a cover therefor, a pair of contact members 5 the cover.

manipulated to correspond with the lighting | tact member upon said cover mating a con- 35 10 negative will be covered by the sheet 18 and | opened the contact member carried by said the white lights turned on, while upon opening it the white lights will be extinguished. The negative will then be uncovered, and, finally, the red light will be started so as to 15 throw the non-actinic light through the negative and permit the operator to observe it.

Patent—

1. A printing device, comprising a casing | members upon said casing. having electrical connections, two pairs of front and rear of the casing near the top two subscribing witnesses. thereof, a cover for the casing, said cover 25 having a plate adapted to engage the rear resilient plates when the cover is open, and a plate adapted to engage the front resilient plates when the cover is closed, whereby said

mounted upon said casing, a pair of contact The way in which the sheet 18 will be members mounted upon said cover, each conof the lamps will be readily understood, and it tact member upon said casing, the arrangewill be seen that upon closing the cover the ment being such that when said cover is cover engages one of said contact members mounted upon said casing, and when said 40 cover is closed the other of said contact members mounted upon said cover engages the other of said contact members mounted upon said casing, electric lamps of different Having thus described my invention, I colors connected respectively with said con- 45 claim as new and desire to secure by Letters; tact members upon said casing, and electric connections from said lamps to said contact

In testimony whereof I have signed my resilient plates mounted respectively on the name to this specification in the presence of 50

JOHN FORESTER JUNGKIND.

Witnesses:

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R. S. KITTERING, B. F. Jungkind.