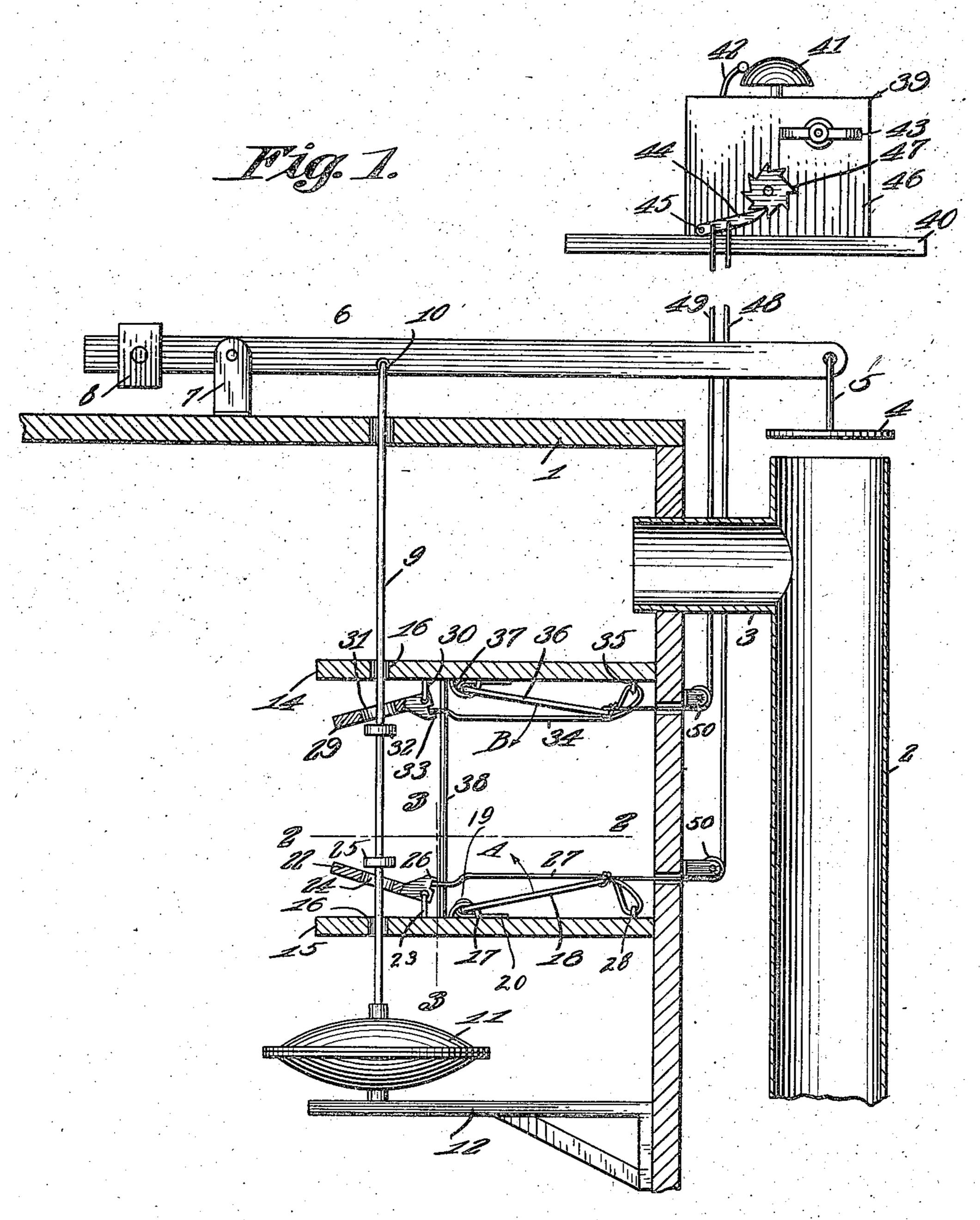
O. P. MORRISON. INCUBATOR ATTACHMENT. FILED AUG. 3, 1922.

SHEETS-SHEET 1



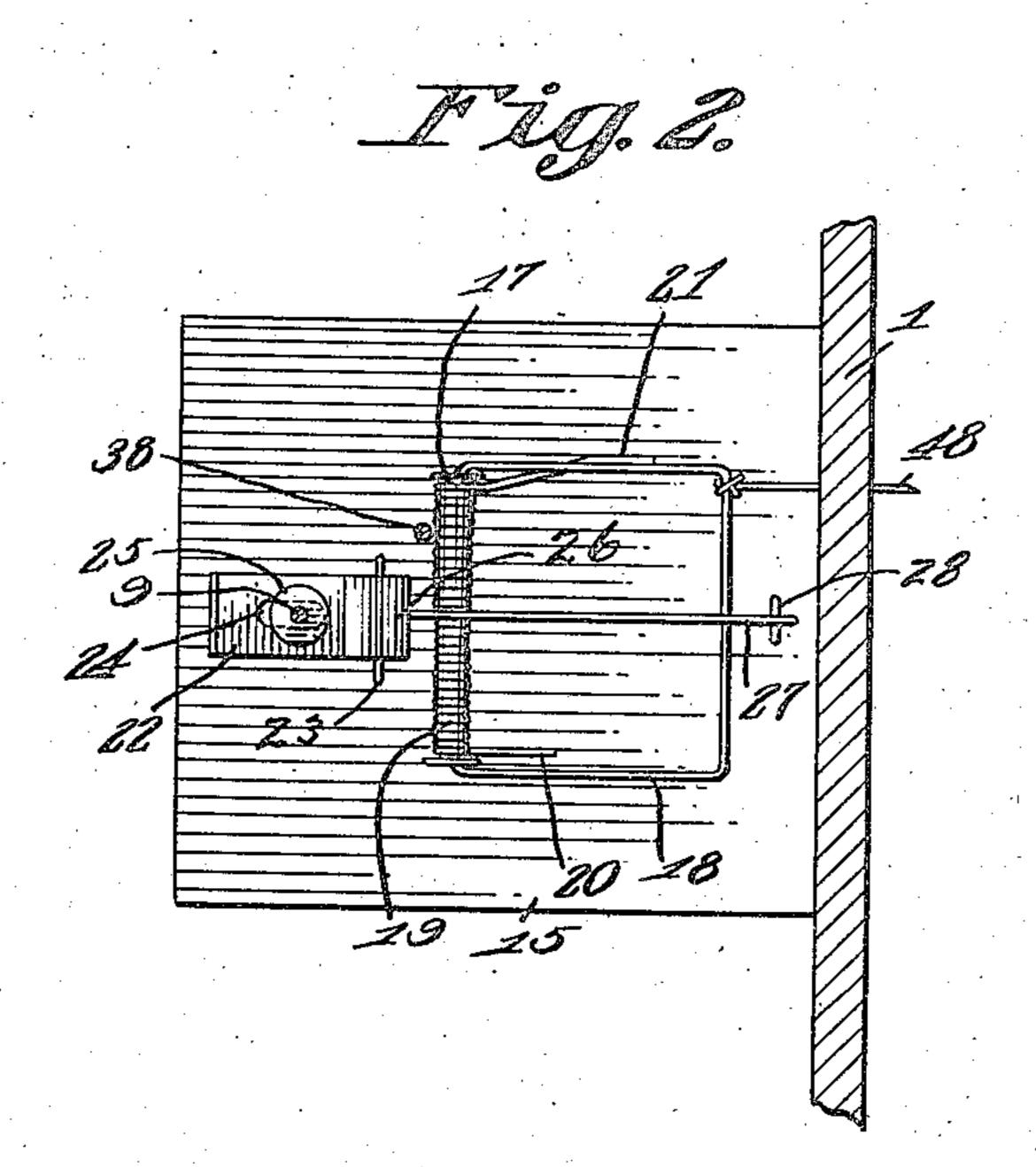
O.T. MOTOLSOTO

Inventor

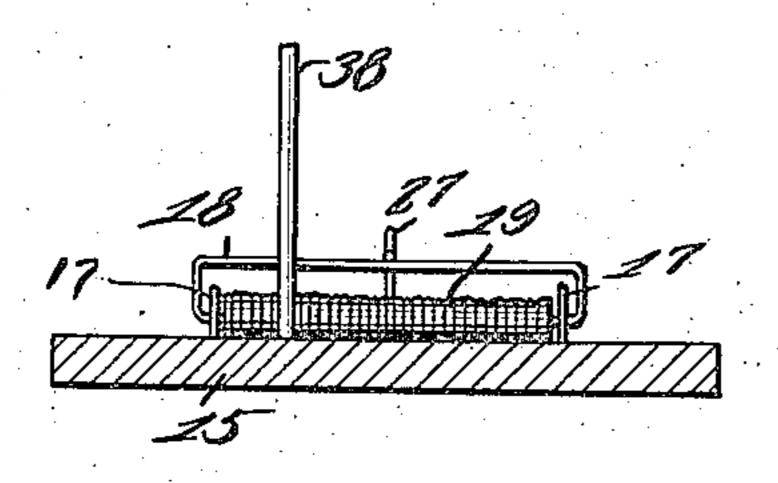
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2 SHEETS-SHEET 2.



III. I.



O.T. MOTOTOT SOM Inventor

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STATES PATENT OFFICE. UNITED

OSCAR P. MORRISON, OF GOMEZ, TEXAS.

INCUBATOR ATTACHMENT.

Application filed August 3, 1922. Serial No. 579,539.

To all whom it may concern:

a specification.

This invention aims to provide a simple support 15. means whereby, when the temperature rises The upper support 14 is provided with a

tor needs attention.

In the drawings:—

drawings a portion of the frame 1 of an 25 incubator, the incubator being heated by any suitable means, such as a flue 2 having a lateral branch 3 discharging into the incubator. The flow of air through the flue 2 may be under the control of a damper 4, pivand carrying an adjustable counterweight 8. The numeral 9 marks a thermostatically operated member such as a rod, pivoted at 10 to 35 the lever 6 and connected at its lower end to a thermostat 11 mounted on a bracket 12 or otherwise.

In carrying out the invention, a pair of sup-extended therebetween. ports 14 and 15 are mounted on the frame 1 40 of the incubator, both the upper support 14 and the lower support 15 being provided with openings 16 wherein the rod 9 slides 21 of the spring engaging one side portion of alarm mechanism. 55 mounted at 23 on the support 15 and has an mounted on the pawl 44. Intermediate 110

opening 24, through which the rod 9 passes Be it known that I, Oscar P. Morrison, a slidably, the rod being provided with a procitizen of the United States, residing at Go-jection 25 adapted to engage the trigger, mez, in the county of Terry and State of when the rod moves downwardly beyond a 5 Texas, have invented a new and useful Incu- predetermined point. The trigger 22 is pro- 60 bator Attachment, of which the following is vided at its inner end with a finger 26. A detent 27 is pivotally mounted at 28 on the

10 or falls beyond predetermined limits, in an mechanism duplicating that described in 65 incubator, a signal will be sounded thereby connection with the lower support 15, and to admonish an attendant that the incuba- the mechanism on the support 14 may be dismissed with a brief catalogue of parts, the said mechanism including a trigger 29 Figure 1 shows in vertical section, a device mounted pivotally at 30 on the support 14 70 constructed in accordance with the inven- and having an opening 31 for the passage of tion, parts being in elevation; Figure 2 is a the rod 9, the projection on the rod being section on the line 2-2 of Figure 1; Figure 3 marked by the numeral 32 and the finger of is a section on the line 3—3 of Figure 1. the trigger appearing at 33. The detent is The device forming the subject matter of denoted by the numeral 34 and is mounted 75 this application is adapted to be used on in- pivotally at 35 on the support 14. The cubators of widely different sorts, but by spring-actuated, loop-shaped arm is desigway of illustration, there is depicted in the nated by the numeral 36 and the bearings which carry the arm for swinging movement are denoted by the numeral 37. The arm 36, 80 when set free, tends to swing in the direction of the arrow B in Figure 1, and the projection 32 on the rod 9 cooperates with the trigger 29 when the rod 9 moves upwardly be-30 otally supported at 5 on a lever 6, fulcrumed youd a predetermined point. In order to 85 intermediate its ends at 7 on the frame 1, prevent the arm 18 from swinging, in the direction of the arrow A against the rod 9, and in order to prevent the arm 36 from swinging in the direction of the arrow B against the rod 9, a stop is provided, the 90 same being, if desired, in the form of a rod 38, mounted on the supports 14 and 15, and

A signal of any desired sort is located at a point remote from the incubator 1 and may 95 be disposed in the bed room or office of an attendant. The signal may take the form of a freely. The lower support 15 is supplied spring-actuated alarm 39 supported at 40 with bearings 17. The numeral 18 marks a and including a gong 41 adapted to be en-45 loop-shaped arm, the ends of which are gaged by a striker 42, the winding button 100 mounted pivotally in the bearings 17. A being marked by the numeral 43. The torsion spring 19 is disposed between the alarm is held set through the instrumentality bearings 17 and is mounted on the aforesaid of a pawl 44 pivoted at 45 on the casing 46 ends of the arm 18, one end 20 of the spring of the alarm and adapted to cooperate with 50 bearing on the support 15, and the other end a ratchet wheel 47, constituting a part of the 105

the arm 18, the function of the spring being Connections 48 and 49 are provided, the to swing the arm in the direction of the ar- same ordinarily being in the form of flexirow A in Figure 1. A trigger 22 is pivotally ble elements, having their upper ends

their ends, the connections 48 and 49 pass means for disengaging the trigger from the slidably over fairleaders 50 on the frame 1 of the incubator, the connections passing in- 2. In an incubator, a thermostatically 5 nection 49 is secured to the intermediate portion of the arm 36, whereas the inner end of the connection 48 is attached to the intermediate portion of the arm 18.

In practical operation, the arm 18 is 10 swung rearwardly into the position shown 15 spring 19 being under tension. In a similar moved beyond a predetermined point.

and the trigger 29.

20 incubator, the rod 9 will be carried down-signal; a movable detent coacting with the the projection 25 on the rod 9 engaging the ger engaging the detent releasably, said trigger 22 and swinging the trigger down- member embodying means for engaging the 25 the member 27, and the arm 18 swinging tent, after said member has moved a preforwardly, under the action of the spring determined amount. rection of the arrow A, a pull will be exerted 30 on the flexible connection 48, the pawl 44 47, and the gong 41 will sound.

35 jection 32 cooperating with the trigger 39 detents; and projections on the thermostat. will detach the trigger from the detent 34, ically operated member, one projection cothe arm 36 being set free, and swinging in operating with one trigger to release the the direction of the arrow B against the stop same when the thermostatically operated 40 nection 49, the pawl 44 being disengaged other projection cooperating with the other

being sounded.

What is claimed is:—

45 erated member; a signal; a spring actuated as my own, I have hereto affixed my signaarm mounted for swinging movement; a ture in the presence of two witnesses. connection between the arm and the signal; a detent cooperating with the arm to hold the same set; and a trigger mounted for 50 swinging movement and engaged releasably with the detent, said member embodying

detent.

side of the frame. The inner end of the con- operated member; a signal; an arm mounted 55 for swinging movement; a connection between the arm and the signal; a detent pivotally mounted at one end and extended across the arm to hold the arm set; and a trigger mounted for swinging movement 60 and engaged releasably with the detent, the in Figure 1, and the detent 27 is extended thermostatically operated member being forwardly across the free end of the arm 18, movable within limits, independently of the the outer end of the detent 27 being engaged trigger, and embodying a projection adapted with the finger 26 on the trigger 22, the to engage the trigger when said member has 65

way, the arm 36 is held by the detent 34 3. In an incubator, a thermostatically operated member; a signal; a spring-ac-Should the temperature in the incubator tuated arm supported for swinging movefall to a point endangering the eggs in the ment; a connection between the arm and the 70 wardly by the action of the thermostat 11, arm to hold the arm set; and a movable trigwardly, the finger 26 being detached from trigger, to release the trigger from the de- 75

19 until the arm strikes the stop rod 28. 4. In an incubator, a thermostatically When the arm swings forwardly in the di- operated member movable in opposite directions; a signal; spring-actuated arms sup- 80 ported for swinging movement; connecwill be disengaged from the ratchet wheel tions between the arms and the signal; detents cooperating with the arms to hold the Similarly, when the temperature in the same set; triggers mounted for swinging incubator rises to the danger point, the pro- movement and engaged releasably with the 85 rod 38, a pull being exerted on the con-member moved in one direction, and the 90' from the ratchet wheel 47 and the gong 41 trigger to release the same, when the thermostatically operated member moves in an opposite direction.

1. In an incubator, a thermostically op- In testimony that I claim the foregoing 95

OSCAR P. MORRISON.

Witnesses:

A. A. COPELAND, W. H. Dallas.