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Inventor(s)	Walsh; James R. et al.

Retracting tunnel rodent trap

Abstract

A rodent trap includes a base, a strike member, a biasing member, and a trigger. The base defines a base interior and an opening. The strike member is movably coupled to the base for linear travel between an extended position and a retracted position. The strike member comprises a tunnel element extending through the opening of the base. The strike member defines an entryway that communicates with the base interior. The biasing member is coupled to the base and the strike member. The biasing member is configured to bias the strike member toward the retracted position. The trigger is movably coupled to the base. The trigger is configured to contact an outer surface of the strike member in the extended position. When the trigger dislodges from the outer surface of the strike member, the strike member linearly travels to the retracted position.

Inventors:	Walsh; James R. (Wauwatosa, WI), Johnson; Daniel C. (Madison, WI)
Applicant:	OMS Investments, Inc. (Los Angeles, CA)
Family ID:	1000008747723
Assignee:	OMS Investments, Inc. (Los Angeles, CA)
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Primary Examiner: Ark; Darren W

Attorney, Agent or Firm: Frost Brown Todd LLP

Background/Summary

CROSS REFERENCES TO RELATED APPLICATIONS (1) This application is a continuation of and claims priority to U.S. application Ser. No. 16/724,219, filed Dec. 21, 2019, now U.S. Pat. No. 11,185,066, issued Nov. 30, 2021, which is a continuation of U.S. application Ser. No. 14/946,927, filed Nov. 20, 2015, now U.S. Pat. No. 10,512,259, issued Dec. 24, 2019, which is a divisional of U.S. application Ser. No. 13/738,008, filed Jan. 10, 2013, now U.S. Pat. No. 9,220,256, issued Dec. 29, 2015, the disclosures of which are incorporated herein by reference in their entireties.

BACKGROUND

- (1) Embodiments of the present invention relate generally to rodent traps and more particularly to disposable mouse traps.
- (2) Mice within human habitations, particularly residences, present a perennial hazard to health and enjoyment of dwelling spaces. Many devices are known to capture and kill rodents. The conventional spring and bail kill trap can be very effective, but the exposed spring-loaded bail can be a hazard to pets and children. Moreover, consumers often prefer to avoid contact with the rodent once it has been killed, and for this purpose fully enclosed kill traps have been developed which freely admit rodents in a set configuration, but once triggered block off the trap entrance so that the dead rodent is not exposed, nor are the remains of the rodent able to extend from the trap. These traps provide a visual cue to their successful use, signaling the user to remove and dispose of the trap and its contents.
- (3) There is always a need for a rodent trap of this sort that, while effective, is also capable of being produced at low cost, and using automated procedures.

SUMMARY

- (4) According to an embodiment, a rodent trap includes a base, a strike member, a biasing member, and a trigger. The base defines a base interior and an opening. The strike member is movably coupled to the base for linear travel between an extended position and a retracted position. The strike member comprises a tunnel element extending through the opening of the base. The strike member defines an entryway that communicates with the base interior. The biasing member is coupled to the base and the strike member. The biasing member is configured to bias the strike member toward the retracted position. The trigger is movably coupled to the base. The trigger is configured to contact an outer surface of the strike member in the extended position. When the trigger dislodges from the outer surface of the strike member, the strike member linearly travels to the retracted position.

- (5) A rodent trap of an embodiment of this invention has a molded plastic base with a cover which defines an enclosed interior. The interior is accessible through a sliding plastic tunnel which offers a passageway with two entryways for rodents. The molded plastic tunnel has a projecting strike member, and is biased by an underlying spring to a retracted position. A trigger engaging member extends from the tunnel to be retained by the catch on a side-mounted trigger to hold the tunnel in an extended set configuration where a rodent may readily enter. When a rodent passes through the tunnel into the interior of the base, it is directed by barriers into a trigger compartment which presents a rodent attracting bait. To reach the bait, the rodent must press against a pivotably mounted trigger, thereby dislodging the trigger from the trigger engaging member which releases the tunnel to be driven by the spring to retract along parallel tracks to bring the strike plate forcibly against the rodent within the trap, usually killing it, and closing the trap, which is then presented for convenient disposal without exposing the dead rodent.
- (6) A mouse trap is provided that effectively kills mice and thereafter screens the trap contents from view.
- (7) A rodent trap is provided that is economically manufactured.
- (8) Further features and advantages of the disclosed technology will be apparent from the following detailed description when taken in conjunction with the accompanying drawings.
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Description

BRIEF DESCRIPTION OF THE DRAWINGS

- (1) FIG. 1 is an exploded isometric view of the rodent trap of an embodiment of the present invention.
- (2) FIG. 2 is a top plan view, with the lid removed, of the rodent trap of FIG. 1 in a set configuration.
- (3) FIG. 3, is a top plan view, partially broken away in section, of the rodent trap of FIG. 1 in a triggered configuration.
- (4) FIG. 4 is a cross-sectional view of the rodent trap of FIG. 2 taken along section line 4-4.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

- (5) Referring more particularly to FIGS. 1-4, wherein like numbers refer to similar parts, a rodent trap 20 is shown in FIG. 1. The rodent trap is economically assembled of six parts: a metal spring 22 and five molded plastic parts. The spring 22 is received within a recessed channel 24 formed in the projecting platform 26 of a plastic base 28. The base 28 has an upwardly protruding side wall 30. The side wall 30 has a front opening 32 and a number of barb-receiving ledges 34. A plastic lid 36 has protruding barbs 38 which engage with the barb-receiving ledges 34 to fix the lid to the base and to close off the trap 20 and define a trap interior 40.
- (6) A trigger 42 is mounted within the base interior 40, and a slidable strike member 44 provides access to the base interior. As shown in FIG. 1, the base has an encircling interior wall 46 which extends around the interior. A stub wall 48 projects from the interior wall 46 rearwardly of the strike member 44, and is aligned with a lower barrier wall 50 which projects upwardly from the floor 52 of the base 28. Recessed beneath the floor 52 are two parallel guide tracks 54 which receive track-following flanges 56 which extend downwardly from the side walls 58 of a tunnel element 60 of the strike member 44. The tunnel element side walls 58 are joined to a tunnel top wall 62 and a tunnel end wall 64 to define an enclosed passageway which communicates with the trap interior 40. Each tunnel element side wall 58 has portions defining an arched opening or entryway 66, as shown in FIG. 2, which allows a rodent to enter from either side of the tunnel element. The tunnel element travels along the guide tracks under the urging of the spring when released from the trigger. The direction of tunnel element travel defines an axis, which is defined equidistant between the two side walls 58.

(7) As shown in FIG. 1, the spring 22 has a forward loop 68 and a rear loop 70. The forward loop 68 is engaged by a hook 72 which extends downwardly from the end wall 64 of the tunnel element 60. The rear loop 70 of the spring 22 engages a spring hook 71 which protrudes downwardly from the base floor 52 adjacent the end of the spring channel 24. The spring 22 biases the strike member 44 into a retracted configuration, acting to accelerate the strike member towards a rodent within the trap 20 when the trigger 42 is tripped.

(8) The lid 36 has a short stub wall 76 which extends downwardly close to the base stub wall 48, as well as an upper barrier wall 78 which extends near the base lower barrier wall 50. The lid and base stub walls 76, 48 and the lid and base barrier walls 78, 50, serve to define an entrance compartment 80 of the interior through which the tunnel element 60 extends, and a trigger compartment 82 within which is mounted the trigger 42.

(9) A shallow tunnel stop 84 extends downward from the lid in a position rearward of the tunnel element 60. The tunnel stop 84 serves to limit the rearward travel of the strike member 44 by engaging the top wall 62 of the tunnel element as it moves rearwardly. As shown in FIG. 2, the trigger 42 is pivotably mounted to an upstanding pin 86 which, as best shown in FIG. 1, is supported on a platform 88 which extends from the base floor 52.

(10) The trigger 42 is a molded plastic piece having two brackets 90 (only the top one being shown in FIGS. 1-3) with pin holes 92 through which the base pin 86 extends. The upper end of the pin 86 is supported against deflection in the direction of strike member movement by a protruding arc segment 94 which extends from the lid 36 adjacent the pin. The trigger 42 has a lower clearance wall 96 joined by a horizontal shelf 98 to a protruding upper wall 100, shown in FIGS. 1 and 2. The trigger 42 may be reinforced by outside ribs 102 running parallel to the shelf 98 as shown in FIG. 4. A tab 104 extends downwardly from the trigger clearance wall 96 near the end away from the brackets 90, and is received within a tab guide hole 106 formed in the floor 52 of the base 28. A spring 108 is integrally molded to protrude from the base interior wall 46 which has a free end 110, shown in FIG. 1, which engages the exterior of the trigger 42 and urges the trigger toward the strike member. The integral spring 108 may be formed with an upper lead-in ramp 112 to aid directing the trigger into place during assembly. The upper wall 100 of the trigger 42 extends into the trigger compartment 82 to narrow the compartment to increase the likelihood that a rodent passing through the compartment will engage the trigger.

(11) As shown in FIG. 2, the strike member has a trigger engaging member 114 which projects from the strike member tunnel element 60 towards the trigger 42. The trigger engaging member 114 has a horizontal wall 116 which extends from the tunnel element 60 side wall 58 towards the trigger 42, and which joins a vertical wall 118. The vertical wall 118 extends downwardly along the entire inside edge of the horizontal wall 116, and extends upwardly to define a barrier wall 120. A clearance gap 122 is thus defined between the barrier wall 120 and the trigger upper wall 100. Through this gap 122 a rodent may detect the bait 124 contained within a removable bait cup 126, best shown in FIGS. 1 and 3. The bait cup 126 is positioned between the tunnel element 60 and the trigger 42. It is the bait which draws the rodent into the trigger compartment where it will not only activate the trigger, but also be best positioned for being struck in such a way as to be killed by portions of the strike member 44.

(12) A catch 128 protrudes from the trigger lower wall 96 near the free end 130 of the trigger 42. The free end 132 of the vertical wall 118 of the trigger engaging member 114 abuts against the trigger catch 128, thereby holding the strike member 44 in its set position, with the tunnel element 60 extending from the trap interior 40 as shown in FIG. 2. In the set position, the strike member 44 is held against the force of the spring 22 which is urging the strike member towards its retracted configuration.

(13) As best shown in FIG. 4, the trigger engaging member 114 is principally connected to the tunnel element 60 side wall 58 by the horizontal wall 116. An upper slot 134 and a lower slot 136 defined between the barrier wall 120 and the tunnel side wall 58 provide clearance for the upper

barrier wall **78** and the lower barrier wall **50** as the strike member moves along the guide tracks **54**. The lower clearance wall **96** of the trigger is recessed back from the trigger upper wall **100** to provide clearance for the trigger engaging member **114** as the strike member moves from its set configuration to a striking engagement with a captured rodent.

(14) The strike member **44** has a vertical wall which acts as a strike plate **138** which extends in the direction of the strike member motion towards the rear of base **28**. The strike plate **138** extends the full height of the barrier wall **120**. As shown in FIG. **3**, the strike plate **138** extends parallel to the rear barrier wall **48** but offset towards the trigger a small amount, for example about $\frac{1}{8}$ inch. The strike plate **138** is an off-axis wall which extends towards the interior, and which is configured to strike portions of the rodent outside the tunnel element **60** when the trap **20** is triggered.

(15) The operation of the trap **20** is illustrated in FIGS. **1** and **2**. The user removes the bait cup **126** from the base **28** by rotating it to disengage the bait cup projecting flanges **140** from their engagement with the base floor **52** surrounding a bait cup opening **142** located within the trigger compartment **82**. The user then places rodent bait **124**, for example peanut butter, in the bait cup **126**, and returns it to its position within the base **28**. Because the bait cup **126** is removed and introduced through the underside of the base **28**, the user need not remove the lid **36** from the trap. To set the trap, the user grips and pulls on the sidewardly projecting flanges **144** of the tunnel element **60** of the strike member **44** which are accessible exterior to the base **28**. The tunnel element **60** is thus extended to reveal the two entryways **66** and the trigger engaging member **114** is brought forward until the integral spring **108** urges the trigger **42** to engage with the trigger engaging member, and thereby hold the strike member **44** in the set position as shown in FIG. **2**.

(16) One of the sidewardly projecting flanges **144** may have a protruding pointer **145**, as shown in FIG. **1**, which is always positioned outside the base interior and which extends over indicia **152** placed on the platform **26** of the base alongside one of the guide tracks **54**. The indicia **152** may be molded into the base, or may be applied such as on an adhesive-backed label. The indicia include a region indicating that the trap is “set” as shown in FIG. **2**, and another region, closer to the side wall **30** indicating that the trap has been activated and that a rodent has been “caught” as shown in FIG. **3**. The words “set” and “caught” are spaced from each other in the axial direction of travel of the tunnel element **60**, so that when the trap is in a position with the tunnel element extracted, the pointer **145** is near the indicium “set”, and when the tunnel element is retracted substantially within the interior, the pointer is near the indicium “caught”.

(17) In the set position, the only access to the bait for a mouse **146** is through the entryways **66** and thence through a passageway **148** defined by the tunnel element **60**, the lower barrier wall **50**, the upper barrier wall **78**, the lid **36** and the interior wall **46** on the entrance compartment **80** side of the base **28**. When the mouse **146** enters the passageway **148**, it must progress through the tunnel and then make a turn into the trigger compartment **82**. As shown in FIG. **4**, when the mouse looks into the trigger compartment the bait **124** is directly ahead, but shielded by the wall **118** of the trigger engaging member. The gap **122** presents a route to the bait **124**. As the mouse moves towards the gap **122**, it will engage against and displace sidewardly the upper wall **100** of the trigger **42**, thereby causing the trigger to pivot about the pin **86** and releasing the trigger catch **128** from the free end of the **132** of the trigger engaging member **114** of the strike member **44**. Once released from the trigger, the spring **22** accelerates the strike member along the axial path defined by the guide tracks **54** towards the rear of the base **28**.

(18) As shown in FIG. **3**, this rapid retraction of the strike member brings the vertical wall **118** and the strike plate **138** into contact with the mouse **146** and forcibly displaces it towards the rear of the base. Because the mouse's head was within the trigger compartment when the trigger was engaged, it is likely that the strike plate **138** will crush the torso of the mouse **146** between the strike plate **138** and the wall **48** at the rear of the base, usually causing death. The tunnel element **60** may be a little more than 3 inches long. Because the mouse is partially within the trigger compartment when struck, there is adequate space within the trap to entirely contain the rodent's remains so that none

will project beyond the trap interior. The retracted tunnel element **60** gives an easily perceived signal to the user that a mouse has been caught. The trap **20** and the mouse therein may then be disposed of by the user without the need to ever come directly in contact with the mouse remains. (19) It is understood that the disclosed invention is not limited to the particular construction and arrangement of parts herein illustrated and described, but embraces all such modified forms thereof as come within the scope of the following claims.

Claims

1. A rodent trap comprising: a base defining a base interior and an opening; a strike member movably coupled to the base for linear travel between an extended position and a retracted position, the strike member comprising a tunnel element extending through the opening of the base and into the base interior, the tunnel element defining an entryway that communicates with the base interior, wherein the entryway is exterior to the base interior when the strike member is in the extended position; a biasing member coupled to the base and the strike member, the biasing member configured to bias the strike member toward the retracted position; and a trigger pivotably coupled to a pin extending vertically from the base, wherein the trigger is configured to contact an outer surface of the strike member in the extended position and, when the trigger dislodges from the outer surface of the strike member, the strike member linearly travels to the retracted position.
2. The rodent trap of claim 1, wherein the entryway is in the base interior when the strike member is in the retracted position.
3. The rodent trap of claim 1, wherein the trigger and the strike member are spaced apart when the strike member is in the retracted position.
4. The rodent trap of claim 1, wherein the strike member has a trigger engaging member that projects from an outer side of the tunnel element of the strike member, wherein the outer surface of the strike member includes an outer surface of the trigger engaging member, the trigger engaging the outer surface of the trigger engaging member when the strike member is in the extended position.
5. The rodent trap of claim 1, wherein the base includes a platform projecting beyond the base interior.
6. The rodent trap of claim 5, wherein the base includes a base floor, the platform extending from the base floor, and wherein the strike member linearly travels along the platform and the base floor to the retracted position.
7. The rodent trap of claim 5, wherein the biasing member comprises a spring, and the platform of the base defines a channel that receives the spring.
8. The rodent trap of claim 1, wherein a guide track is formed in the base to receive a projection from the strike member to guide it along a desired path.
9. The rodent trap of claim 1, further comprising a trigger spring biasing the trigger towards the strike member.
10. The rodent trap of claim 1, wherein the tunnel element defines a passageway that communicates with the base interior, and the trigger is spaced outside of the passageway and sidewardly from the tunnel element.
11. The rodent trap of claim 1, wherein the base defines within the base interior an entrance compartment and a trigger compartment, the trigger compartment being alongside the entrance compartment and in communication therewith, wherein the tunnel element of the strike member extends into the entrance compartment and the trigger is in the trigger compartment.
12. The rodent trap of claim 11, wherein the trigger includes a trigger catch, the outer surface of the strike member includes a trigger engaging member that engages the trigger catch, wherein the trigger engaging member has a horizontal wall projecting from an exterior side wall of the strike member from the entrance compartment into the trigger compartment, and a vertical wall extending

upwardly from the horizontal wall to face towards a rodent entering the trigger compartment from the entrance compartment, the vertical wall being in the trigger compartment.

13. The rodent trap of claim 12, wherein a strike plate extends from the vertical wall of the trigger engaging member, and the strike plate is positioned to strike the rodent within the base interior when the trigger is triggered.

14. The rodent trap of claim 11, further comprising a lid connected to the base, the lid having a lid barrier wall extending downwardly into the base interior, and wherein the base has a base barrier wall extending upwardly into the base interior, the lid barrier wall and the base barrier wall extending between the entrance compartment and the trigger compartment.

15. The rodent trap of claim 1, further comprising a bait cup positioned within the base interior between the trigger and the strike member.

16. The rodent trap of claim 1, further comprising: indicia associated with the base to indicate whether the rodent trap is set with the strike member in the extended position or has been activated with the strike member in the retracted position, the indicia associated with the base comprising first indicia to indicate the rodent trap is set and second indicia to indicate the rodent trap has been activated, the first and second indicia being spaced from one another; and indicator portions of the strike member extending outside the base interior and pointing to one of the spaced first and second indicia depending on whether the strike member is in the extended position or the retracted position.

17. The rodent trap of claim 1, wherein: the base has a guide track extending outside the base interior; the tunnel element is mounted to the base, the tunnel element further comprising portions extending into the guide track, wherein the tunnel element is mounted for travel on the base between the extended position in which the entryway is accessible by a rodent when it is exterior to the base interior, and the retracted position; the biasing member comprises a spring extending between the base and the tunnel element; the spring biases the tunnel element towards the retracted position; and the tunnel element is configured to travel, guided by the guide track, to the retracted position under the urging of the spring, such that the tunnel element will strike portions of the rodent upon release of the strike member by dislodgement of the trigger by the rodent.

18. The rodent trap of claim 17, wherein the base has a platform projecting beyond the base interior, and wherein the guide track is formed on the platform of the base.

19. The rodent trap of claim 1, wherein a rodent moving through the entryway into the base interior and against the trigger will dislodge the trigger from the outer surface of the strike member to release the strike member to linearly travel to the retracted position.
