position, is arranged at a second side of the inner channel and/or opening being opposite the first side and that the movement of the striker plate between the two positions is a linear motion, wherein the reloader comprises a pusher part and a handle part, the pusher part being configured to push the striker plate from its second position to its first position by moving the handle part, which pusher part is connected to the striker plate and disconnectable from the striker plate.

This provides a spring-loaded strike rat trap having a more efficiently used inner space as the striker plate requires less space for its movement. Hence, a more user friendly design of the spring-loaded strike rat trap in terms of accessibility is provided. This provides easier and more secure arming of the spring-loaded strike rat trap with less risk of injury in case of a "misfire" or accidental triggering while arming and/or having any body member, such as one or more fingers in contact with parts moving when the trap is triggered providing a more robust functionality and improved user safety.

According to some embodiments, the movement of the striker plate is in a direction essentially perpendicular to the extension of the inner channel.

This provides a more compact spring-loaded strike rat trap by more efficient use of its inner space as the movement of the killing striker plate "takes up" less volume inside the trap compared to a circular or curved/arched movement as in prior art rat traps.

According to some embodiments, the striker plate in the second position is configured to block/close at least a part of the inner channel and/or opening such that the rodent is unable to reach the bait through the inner channel/opening.

This provides an improved spring-loaded strike rat trap being more user friendly in terms of maintenance and bait life span as the bait is protected from being eaten by other rodents if the trap has been triggered as the bait is not accessible and the bait will be enough for a longer time before having to refill bait, whereby this also improves hygiene as less time and occasions for refilling is needed and due to the elimination of other still living rodents moving around and/or climbing on a dead one inside and around the trap.

According to some embodiments, the striker plate comprises an opening being aligned with the inner channel and/or opening (of the inner channel) when the striker plate is in its first position.

This provides an improved spring-loaded strike rat trap with a quicker killing ability as the killing striker plate "travels", i.e. moves only a distance corresponding to the width and/or breadth and/or thickness of the inner channel and/or its opening before coming into contact

with a rat if the trap is triggered. This also enables providing a better control, guidance and therefore improved stability of the movement of the killing striker plate when travelling back

**CLAIMS**

1. A rodent trap ~~(1)~~ comprising a housing ~~(2)~~, an inner channel ~~(3)~~, a spring-loaded killing mechanism ~~(10)~~ comprising at least one spring ~~(11)~~ and at least one striker plate ~~(12)~~, a reloader ~~(13)~~, a trigger mechanism ~~(14)~~, and a bait ~~(15)~~, the housing comprising an opening ~~(3B)~~ into the inner channel and one or more sensors ~~(16)~~ arranged at/in the inner channel and/or the opening for triggering the trigger mechanism if a rodent ~~(400)~~ is detected, the bait being arranged inside the inner channel, the striker plate being configured to move between two positions by means of the spring ~~(11)~~, a first position ~~(3')~~ in which at least a part of the striker plate is arranged at a first side of the inner channel and/or opening leaving the inner channel and/or opening open for passage, c h a r a c t e r i z e d in that at least a part of the striker plate ~~(12)~~, in a second position ~~(3")~~, is arranged at a second side of the inner channel ~~(3)~~ and/or opening ~~(3B)~~ being opposite the first side, ~~and~~ that the movement of the striker plate ~~(12)~~ between the two positions ~~(3', 3")~~ is a linear motion, wherein the reloader comprises a pusher part and a handle part, the pusher part being configured to push the striker plate from its second position to its first position by moving the handle part, which pusher part is connected to the striker plate and disconnectable from the striker plate.

2. The rodent trap ~~(1)~~ according to claim 1, wherein the movement of the striker plate ~~(12)~~ is in a direction essentially perpendicular to the extension of the inner channel ~~(3)~~.

3. The rodent trap ~~(1)~~ according to claim 1 or 2, wherein the striker plate ~~(12)~~ in the second position ~~(3")~~ is configured to block/close at least a part of the inner channel ~~(3)~~ and/or opening ~~(3B)~~ such that the rodent ~~(400)~~ is unable to reach the bait ~~(15)~~ through the inner channel/opening.

4. The rodent trap ~~(1)~~ according to any preceding claim, wherein the striker plate ~~(12)~~ comprises an opening ~~(120)~~ being aligned with the inner channel ~~(3)~~ and/or opening ~~(3B)~~ when the striker plate ~~(12)~~ is in its first position ~~(3')~~.

5. The rodent trap ~~(1)~~ according to any preceding claim, wherein the at least one spring ~~(11)~~ is directly coupled to the striker plate ~~(12)~~.

6. The rodent trap ~~(1)~~ according to any preceding claim, wherein the at least one spring ~~(11)~~ is under compression when the striker plate ~~(12)~~ is in its first position ~~(3')~~.

7. The rodent trap ~~(1)~~ according any preceding claim, wherein the reloader ~~(13)~~ is configured to move the striker plate ~~(12)~~ from its second position ~~(3")~~ to its first position ~~(3')~~.

~~8. The rodent trap (1) according to any preceding claim, wherein the reloader (13) comprises a pusher part (130) and a handle part (131), the pusher part being configured to push the striker plate from its second position (3") to its first position (3') by moving the handle part.~~

~~9~~8. The rodent trap ~~(1)~~ according to claim ~~8~~1, wherein the pusher part ~~(130)~~ and the handle part ~~(131)~~ are configured to be moved together in a linear motion.

~~10~~9. The rodent trap ~~(1)~~ according to claim ~~8~~1, wherein the pusher part ~~(130)~~ and the handle part ~~(131)~~ are configured to be moved together in a circular motion.

~~11. The rodent trap (1) according to any of claims 8 to 10, wherein the pusher part (130) is connected to the striker plate (12).~~

~~12. The rodent trap (1) according to claim 11, wherein the pusher part (130) is disconnectable from the striker plate (12).~~

~~13~~10. The rodent trap ~~(1)~~ according to claim 1~~2~~, wherein the reloader ~~(13)~~ comprises a spring ~~(132)~~ for disconnecting and moving the pusher part (130) from the striker plate ~~(12)~~.

~~14~~11. The rodent trap ~~(1)~~ according to claim ~~13~~10, wherein the reloader spring ~~(132)~~ is configured for retracting the handle part ~~(131)~~.

~~15~~12. The rodent trap ~~(1)~~ according to claim ~~13~~ 10 or ~~14~~11, wherein the reloader spring ~~(132)~~ is operatively connected to a damper of the movement and retraction of the pusher and handle parts ~~(130, 131)~~.

~~16~~13. The rodent trap ~~(1)~~ according to any preceding claim, wherein the striker plate ~~(12)~~ comprises at least two ends ~~(12A, 12B, 12C)~~ of which a first inner end ~~(12A)~~ is configured to hit and kill a rodent ~~(400)~~ in the second position ~~(3")~~ after the rodent trap ~~(1)~~ has been triggered and the striker plate ~~(12)~~ has been moved from the first position ~~(3')~~ to the second position.

~~17~~14. The rodent trap ~~(1)~~ according to claim ~~16~~13, wherein the first inner end ~~(12A)~~ of the striker plate ~~(12)~~ is configured with a rounded shape and/or blunt shape and/or obtuse-angled shape and/or an angled shape and/or pointed shape and/or sharp shape and/or sharp-edged shape and/or sharpened edge.