CLAIMS

1. A spring-loaded strike rodent trap ~~(1)~~ comprising at least one spring ~~(2)~~, a housing ~~(3)~~, at least one striker bar ~~(10)~~, at least one arming bar ~~(20)~~, at least one trigger plate ~~(30)~~, and at least one trigger ~~(40)~~, the spring being configured for biasing the bars ~~(10, 20)~~ to move from a first position ~~(A, A')~~, where the arming bar and the trigger plate is releasably held by the trigger and in contact with a ready indicator ~~(100, 101)~~ to indicate that the spring-loaded strike rodent trap ~~(1)~~ is charged, into at least one other position ~~(B, B', C, C')~~ where the movement of the bars is stopped, after the spring-loaded strike rodent trap is triggered releasing the bars,

   c h a r a c t e r i z e d in that the striker bar ~~(10)~~, when the spring-loaded strike rat ~~(1)~~ trap is triggered releasing the striker bar, is either biased by the spring ~~(2)~~ into contact with a firing indicator ~~(110)~~ in a final/end position ~~(B)~~, if a rat or mouse ~~(200)~~ is not hit, or biased into contact with a rat or mouse of a first/certain/predetermined size hitting and killing it in an intermediary position ~~(C)~~ not in contact with any of the indicators ~~(100, 101, 110)~~, and

   that the trigger plate ~~(30)~~ is configured for engaging the firing indicator ~~(110)~~ to displace the firing indicator a distance ~~(D)~~, as measured in the direction of trigger plate movement, when a rat/mouse ~~(200)~~ having a second size/being smaller than the first/certain/predetermined size is hit by the striker bar ~~(10)~~, away from its location when the striker bar is in its final/end position ~~(B)~~, towards another location where the firing indicator is not in contact with the striker bar.

2. A rodent trap ~~(1)~~ according to claim 1, wherein the firing indicator ~~(110)~~ is made of a flexible material and/or has a shape making it flexible.

3. A rodent trap ~~(1)~~ according to claim 1 or 2, wherein the ready indicator ~~(100, 101~~) is made of a flexible material and/or has a shape making it flexible.

4. A rodent trap ~~(1)~~ according to any preceding claim, wherein the firing indicator ~~(110)~~ is a conductor/made of a conductive material.

5. A rodent trap ~~(1)~~ according to any preceding claim, wherein the ready indicator ~~(100, 101)~~ is a conductor/made of a conductive material.

6. A rodent trap ~~(1)~~ according to any preceding claim, wherein the striking bar ~~(10)~~, the arming bar ~~(20)~~ and the trigger plate ~~(30)~~ are configured for rotating/pivoting around the same axis ~~(P)~~.

7. A rodent trap ~~(1)~~ according to claim 6, wherein the spring ~~(2)~~ is configured for biasing the striking bar ~~(10)~~ and the arming bar ~~(20)~~ to rotate/pivot around the same axis ~~(P)~~, which axis ~~(P)~~ the trigger plate ~~(30)~~ is configured for pivoting around when triggered.

8. A rodent trap ~~(1)~~ according to claim 6 or 7, wherein the striking bar ~~(10)~~ and the arming bar ~~(20)~~ both are made of conductive material and are configured for being in conductive connection with the same rotary/pivot axis ~~(P)~~.

9. A rodent trap ~~(1)~~ according to claim 8, further comprising an energiser ~~(120)~~ configured for being in conductive connection with the same rotary/pivot axis ~~(P)~~ as the striking bar ~~(10)~~ and the arming bar ~~(20)~~.

10. A rodent trap ~~(1)~~ according to any preceding claim, wherein the spring ~~(2)~~, the striker bar ~~(10)~~, the arming bar ~~(20)~~, the trigger plate ~~(30)~~ and the trigger ~~(40)~~ are configured for being arranged on an upper side ~~(8A)~~ of a bottom plate ~~(8)~~ for forming a detachable inner inset ~~(7)~~ configured for being a separate/autonomous inner part or module of the trap housing ~~(3)~~ when assembled therein.

11. A rodent trap ~~(1)~~ according to claim 10, wherein the bottom plate ~~(8)~~ of the detachable inner inset ~~(7)~~ has the upper side ~~(8A)~~ and a lower side ~~(8B)~~ and the trigger plate ~~(30)~~ is configured for being movably/pivotally attached to the upper bottom plate side ~~(8A)~~ via a rotary/pivot axis ~~(P)~~ extending substantially in parallel or in parallel with the extension plane of the bottom plate or its bottom plate side.

12. A rodent trap ~~(1)~~ according to claim 10 or 11, wherein the bottom plate ~~(8)~~ of the detachable inner inset ~~(7)~~ has a plate shape defined by its upper side ~~(8A)~~ and lower side ~~(8B)~~ and two long sides ~~(8C)~~ and two short sides ~~(8D)~~, the upper side and lower side are configured for forming substantially parallel and opposite planes extending substantially perpendicular to the long and short sides, which long and short sides are configured for forming pairwise substantially parallel and opposite sides relative each other, and the ready indicator ~~(100, 101)~~ comprises a first end ~~(100A, 101A)~~ configured for being arranged at one of the short ~~(8D)~~ or long ~~(8C)~~ sides of the bottom plate for conductive connection with the arming bar ~~(20)~~ when in its first position ~~(A')~~ when the detachable inner inset ~~(7)~~ is assembled as a removable inner part or module into the rodent trap ~~(1)~~ as charged.

13. A rodent trap ~~(1)~~ according to claim 12, wherein the ready indicator ~~(100, 101)~~ comprises a second end ~~(100B)~~ configured for being arranged at one of the other short ~~(8D)~~ or long ~~(8C)~~ sides of the bottom plate ~~(8)~~ in conductive connection with the arming bar ~~(20)~~ when the detachable inner inset ~~(7)~~ is assembled as a removable inner part or inner module into the rodent trap ~~(1)~~ as charged.
14. A rodent trap ~~(1)~~ according to any of claims 10 to 13, wherein the ready indicator ~~(100, 101)~~ is configured for being arranged as a part of the detachable inner inset ~~(7)~~.
15. A rodent trap ~~(1)~~ according to any of claims 10 to 14, wherein the firing indicator ~~(110)~~ is configured for being arranged as a part of the detachable inner inset ~~(7)~~.
16. A rodent trap ~~(1)~~ according to any preceding claim, wherein the trap housing ~~(3)~~ comprises an detachable outer upper casing or covering ~~(4)~~ and an detachable outer bottom casing ~~(5)~~, which are configured for mating by being removably docketed together when the rat trap ~~(1)~~ is assembled and configured for disconnection when the rat trap is disassembled.
17. A rodent trap ~~(1)~~ according to any of claims 10 to 15 or claim 16 when dependent on any of claims 10 to 14, further comprising an detachable inner insert ~~(6)~~, when assembled, which is configured for removably receiving the detachable inner inset ~~(7)~~ when the rodent trap ~~(1)~~ is assembled, the detachable inner insert ~~(6)~~ being configured for comprising a power source and/or a control unit ~~(50, 80')~~.
18. A rodent trap ~~(1)~~ according to claim 16 or claim 17 when dependent on claim 16, wherein an detachable inner insert ~~(6)~~ or one or more outer coverings ~~(4, 6')~~ is configured for removable and/or fixedly mating/docketing with the detachable outer bottom casing ~~(5)~~ when the rodent trap ~~(1)~~ is assembled.
19. A rodent trap ~~(1)~~ according to claim 17 or claim 18 when dependent on claim 17, wherein the ready indicator ~~(100, 101)~~ is configured for being arranged as a part of the detachable inner insert ~~(6)~~ or the inner inset ~~(7)~~.
20. A rodent trap ~~(1)~~ according to claim 17 or claim 18 when dependent on claim 17 or claim 19 when dependent on claim 17 or 18, wherein the firing indicator ~~(110)~~ is configured for being arranged as a part of the detachable inner insert ~~(6)~~ or the inner inset ~~(7)~~.
21. A rodent trap ~~(1)~~ according to claim 10 or any of claims 11 to 20 when dependent on claim 10, wherein the ready indicator ~~(100, 101)~~ and the firing indicator ~~(110)~~ are elongated and configured for extending from their first ends ~~(100A, 101A, 110A)~~ at a position arranged on/at or above a first level ~~(A_1)~~ defined as extending along the plane

of the upper bottom plate side ~~(8A)~~, towards the lower plate side ~~(8B)~~ and along this lower plate side at a second level ~~(A_2)~~ defined as extending along the lower plate side towards and ending at their second ends ~~(100B, 101B, 110B)~~.

22. A rodent trap ~~(1)~~ according to claim 9 and any of claims 10 to 21 when dependent on claim 9, wherein the energiser ~~(120)~~ is elongated and configured for extending from a first end ~~(120A)~~ at a position arranged on/at or above the first level ~~(A_1)~~ of the upper bottom plate side ~~(8A)~~, towards the lower plate side ~~(8B)~~ and along this lower plate side at the second level ~~(A_2)~~ of the lower plate side towards and ending at a second end ~~(120B)~~.

23. A rodent trap ~~(1)~~ according to claim 22, wherein the energiser ~~(120)~~ is configured for being arranged at the pivot axis ~~(P)~~ in conductive connection with the arming bar ~~(20)~~ when the rodent trap ~~(1)~~ is charged and in conductive connection with a power source and/or a control unit ~~(50, 80')~~ when the detachable inner inset ~~(7)~~ is assembled as a removable inner part or inner module into the rodent trap ~~(1)~~ and configured for being in conductive connection with the striker bar ~~(10)~~ when the rodent trap is triggered and the striker bar has been released and come into conductive contact with the firing indicator ~~(110)~~ and configured for being in conductive connection with the ready indicator ~~(100, 101)~~ and the firing indicator ~~(110)~~ when water or the like conductive fluid has reached the second level ~~(A_2)~~.

24. A rodent trap ~~(1)~~ according to any preceding claim, further comprising a movement and/or presence sensor ~~(140)~~ for detecting an event in the rodent trap ~~(1)~~ for pest control and for emitting a sensor signal in response to the event for direct communication with other rat traps and/or directly with a data base ~~(70)~~ and/or directly to or via a central/internal unit ~~(80, 80')~~ to one or more other rodent traps and/or data bases.

25. A rodent trap ~~(1)~~ according to claim 24, wherein the movement and/or presence sensor ~~(140)~~ is a so-called passive infrared (PIR) sensor.

26. A rodent trap ~~(1)~~ according to any of claims 10 to 15 or claim 16 when dependent on any of claims 10 to 14, further comprising an outer covering ~~(6')~~, when assembled, which is configured for at least removably or fixedly cover the detachable inner inset ~~(7)~~ when the rodent trap ~~(1)~~ is assembled, and/or a power source ~~(50)~~ and/or an internal trap controller ~~(80')~~.

27. A system/network ~~(300)~~ of rodent traps ~~(1)~~ comprising at least two rodent traps ~~(1)~~ according to any of the preceding claims, wherein these at least two rodent traps ~~(1)~~ are operatively connected to cooperate for eliminating or at least reducing or at least minimising a population of rats and/or mouses ~~(200)~~, c h a r a c t e r i z e d in that these at least two rodent traps ~~(1)~~ are configured to form a MESH network in which at least one and/or each and/or all rodent traps continuously monitor presence of water or the like conductive fluid and that one or more of the rodent traps is configured for registering if existing water or the like conductive fluid are at/over a certain/predetermined level ~~(Δ_2)~~ by use of indicators ~~(100, 101, 110, 120)~~ that are conductively connected forming a closed circuit when the water or the like conductive fluid has reached the certain/predetermined level ~~(Δ_2)~~.

28. A system/network ~~(300)~~ of rodent traps ~~(1)~~ according to claim 26, wherein the one or more of the rodent traps ~~(1)~~ configured for registering if existing water or the like conductive fluid are at/over a certain/predetermined level ~~(Δ_2)~~ is operatively connected to a central unit ~~(80)~~ and/or internal unit ~~(80')~~, whereby the registering of the closing of the circuit of the indicators ~~(100, 101, 110, 120)~~ when the water or the like conductive fluid has reached the predetermined level ~~(Δ_2)~~ is configured for triggering an alert signal indicating excess water/conductive fluid that is sent to one or more of the other rodent traps and/or to the central/internal unit that monitors all the rodent traps and their functionality, which central/internal unit is configured for notifying associated personnel of water/sewage leakage or the like.