CLAIMS

1. Case (10) for motorcycles comprising a base portion (12), a cover (14), hinged to said base portion (12) in order to pass from an open configuration to a closed configuration of the case (10) and vice versa, and a supporting structure (16), constrainable on one side to the base portion (12) and, on the opposite side, to a fixed structure of the motorcycle, wherein on said base portion (12) a lock mechanism (18) with a key (20) is permanently constrained, said lock mechanism (18) being operatively connected to the cover (14), characterised in that it comprises first releasable engaging means between the base portion (12) and the cover (14) and second releasable engaging means (28) between said base portion (12) and the supporting structure (16), wherein said second releasable engaging means (28) are made integral to the base portion (12) and wherein both the first engaging means, and the second engaging means (28) are simultaneously released by the key (20) of the lock mechanism (18) in order to selectively obtain the opening of the cover (14) with respect to the base portion (12) and/or the disengagement of said base portion (12) with respect to the supporting structure (16).

2. Case (10) according to claim 1, characterised in that on a predefined portion of the supporting structure (16), a first plate (48)

is made integral, on which a flanging (50) is obtained, which cooperates with said second releasable engaging means (28) in order to allow said base portion (12) to engage on said supporting structure (16), and a second plate (52) is also made integral on it, acting as an anti-intrusion barrier in order to protect said second releasable engaging means (28) from possible theft attempts of the case (10).

3. Case (10) according to claim 1, characterised in that on a predefined portion of the supporting structure (16) a bar (158) is made integral, on which one or more engagement teeth (160) are integrally formed, said teeth cooperating with said second releasable engaging means (28) in order to allow the engagement of said base portion (12) on said supporting structure (16), wherein on said bar (158), at each tooth (160), one or more caps (162) are fixed, acting as an anti-intrusion barrier for protecting said second releasable engaging means (28) from possible theft attempts of the case (10).

4. Case (10) according to claim 3, characterised in that it comprises an engagement indicator device which allows the user to understand whether the engagement of the case (10) to the relative supporting structure (16) has occurred in the correct manner, said engagement indicator device being made up of one or more indicating components (166), enclosed between the bar (158) and the

respective caps (162) and capable of rotating with respect to the supporting structure (16), said one or more indicating components (166) being activated by said second releasable engaging means (28) so as to selectively show the user a portion (170) provided with two separate indicating signals, a first signal indicating the condition in which the case (10) is not engaged with the relative supporting structure (16) and a second signal indicating the condition in which the case (10) is correctly engaged with the relative supporting structure (16).

5. Case (10) according to any one of claims 1 to 4, characterised in that it comprises a plurality of rubber buffers (54; 164) applied to the supporting structure (16) or to the base portion (12), said rubber buffers (54; 164), in the engaged configuration of the case (10), going into contrast and deforming against said base portion (12) or against said supporting structure (16) for zeroing the assembly clearances and thus avoiding annoying vibrations and noise for the user.

6. Case (10) according to any one of claims 1 to 5, characterised in that said second releasable engaging means (28) comprise a main casing (86), fixed to the base portion (12), wherein at least one latch (88) is slidably inserted, on which a cylindrical pin (92) and an inclined tooth (90), which is engageable with said supporting structure (16) in order

to perform the engagement of said base portion (12) on said supporting structure (16), are integrally obtained.

7. Case (10) according to claim 6, characterised in that said main casing (86) comprises at least one cylindrical spring (94) acting by compression, which allows the movement in the vertical direction of said at least one latch (88).

8. Case (10) according to claim 6 or 7, characterised in that in said main casing (86) a disengaging cursor (96) is slidably inserted, on which at least one shaped slot (98) and at least one eye (100) are formed, said disengaging cursor (96) and said at least one latch (88) sliding in respective housings (116, 118) obtained on the main casing (86) and being connected to each other by the insertion of said cylindrical pin (92) in said at least one shaped slot (98), so that a horizontal displacement of the disengaging cursor (96) generates a vertical movement of said at least one latch (88).

9. Case (10) according to claim 8, characterised in that said second releasable engaging means (28) further comprise a fixing bracket (102), fixed to the base portion (12) and provided with two first through-holes (104), and a disengaging lever (106), provided with a gripping handle (108) on one side and with two pairs of second through-holes (110, 124) on the opposite side, said disengaging lever

(106) being attached in an articulated manner to said fixing bracket (102), by means of a first shaft (126) inserted through said first through-holes (104) and a pair of said second through-holes (110), and being then connected to said disengaging cursor (96) through a second shaft (128) inserted through said at least one eye (100) and the other pair of said second through-holes (124) so that, by acting on the gripping handle (108) and rotating the disengaging lever (106) outwards, the horizontal translation of the disengaging cursor (96) is generated and, consequently, the displacement downwards of the latches (88) until the interference between said latches (88) and said supporting structure (16) is released in order to remove said base portion (12) from said supporting structure (16).

10. Case (10) according to any one of claims 1 to 9, characterised in that on the base portion (12) at least one shaped recess (24) is made integral, suitable for inserting into its inside at least one corresponding headed pin (26) obtained on the lower portion of the supporting structure (16) in order to support said base portion (12) on said supporting structure (16).

11. Case (10) according to any one of claims 1 to 10, characterised in that said lock mechanism (18) is made up of a main body (56) wherein a lock (58) actuatable by said key (20) and constrained to an under-lock plate

(64) provided with at least one tooth (68) is inserted, obtaining the same rotation on said under-lock plate (64) by rotating said key (20).

12. Case (10) according to claim 11, characterised in that on said rotating under-lock plate (64) an eccentric disk (66) is integrally obtained, which couples with a latch (70), the rotation of the key (20) and, consequently, the rotation of the assembly made of the lock (58) and of the under-lock plate (64) generating, by means of the action of said eccentric disk (66), the horizontal linear displacement of the latch (70) in order to selectively engage or disengage said second releasable engaging means (28).

13. Case (10) according to claim 11 or 12, characterised in that said lock mechanism (18) further comprises a hinge engaging tooth (72) which forms the first releasable engaging means between the base portion (12) and the cover (14) and whereon two slots (74) are obtained, which couple with a first pin (32) fixed to said cover (14).

14. Case (10) according to claim 13, characterised in that the hinge engaging tooth (72) is rotatably connected to the main body (56) of the lock mechanism (18) through a connecting rod (80) provided with two parallel pins (82, 84), one pin (82) being integral with said engaging tooth (72) and the other pin (84) being integral with said main body

(56) so that, thanks to said connecting rod (80), the engaging tooth (72) can roto-translate from the closed position to the open position of the lock mechanism (18).

15. Case (10) according to claim 13 or 14, characterised in that on the hinge engaging tooth (72) two protrusions (76) are further obtained, in order to allow the gripping by the user in the opening/closing steps of the cover (14), and a tailpiece (78) blockable below said at least one tooth (68) of the under-lock plate (64) so as to prevent the movement of said hinge engaging tooth (72) in the closed configuration of the case (10).

16. Case (10) according to any one of claims 13 to 15, characterised in that on the opposite side of the base portion (12) with respect to the side on which the lock mechanism (18) is permanently constrained, is provided a cursor mechanism (130) which, in a first operative configuration, is capable of keeping the cover (14) rotatably connected to the base portion (12) so as to allow the opening/closing with respect to said base portion (12) and, in a second operative configuration, is capable of decoupling the cover (14) with respect to the base portion (12) so as to allow it to be removed with respect to said base portion (12) and thus improve the accessibility of the case (10).

17. Case (10) according to claim 16, characterised in that the cover (14), on the

opposite side with respect to that on which said first pin (32) is fixed, is provided with a second pin (132) which is engageable with the cursor mechanism (130).

18. Case (10) according to claim 17, characterised in that the cursor mechanism (130) comprises a base plate (134), constrained to the base portion (12) and provided with slots (150) suitable for holding said second pin (132) in said first operative configuration.

19. Case (10) according to claim 18, characterised in that the cursor mechanism (130) further comprises a bottom (136), fitted vertically inside the base plate (134) and fixed to it through blind rivets (138), said bottom (136) having special housings (140) obtained on it, housing respective contrast springs (142) for a sliding cursor (144), provided, at the top, with recessed portions (152) which, in cooperation with the slots (150), are suitable for holding said second pin (132) in said first operative configuration.

20. Case (10) according to claim 19, characterised in that the bottom (136) is provided with a stop tooth (146) which contrasts with a corresponding stop tooth (148) provided on the cursor (144), so as to prevent the cursor (144) from accidentally coming out from said bottom (136).

21. Case (10) according to any one of claims

17 to 20, characterised in that said second pin (132) is made integral with the cover (14) through a piece (154) provided with a flange (156), formed integrally from said piece (154), which partially covers said second pin (132) and makes it more difficult for people with bad intentions to act upon said second pin (132) with tools for theft.

CLAIMS

1. Case (10) for motorcycles comprising a base portion (12), a cover (14), hinged to said base portion (12) in order to pass from an open configuration to a closed configuration of the case (10) and vice versa, and a supporting structure (16), constrainable on one side to the base portion (12) and, on the opposite side, to a fixed structure of the motorcycle, wherein on said base portion (12) a lock mechanism (18) with a key (20) is permanently constrained, said lock mechanism (18) being operatively connected to the cover (14), the case (10) comprising first releasable engaging means between the base portion (12) and the cover (14) and second releasable engaging means (28) between said base portion (12) and the supporting structure (16), wherein said second releasable engaging means (28) are made integral to the base portion (12) and wherein both the first engaging means, and the second engaging means (28) are configured to be simultaneously released by the key (20) of the lock mechanism (18) in order to selectively obtain the opening of the cover (14) with respect to the base portion (12) and/or the disengagement of said base portion (12) with respect to the supporting structure (16), the case (10) being **characterised in that** said second releasable engaging means (28) comprise a main casing (86), fixed to the base portion (12), wherein at least one latch (88) is slidably inserted, on which a cylindrical pin (92) and an inclined tooth (90), which is engageable with said supporting structure (16) in order to perform the engagement of said base portion (12) on said supporting structure (16), are integrally obtained, wherein in

said main casing (86) a disengaging cursor (96) is slidably inserted, on which at least one shaped slot (98) and at least one eye (100) are formed, said disengaging cursor (96) and said at least one latch (88) being configured for sliding in respective housings (116, 118) obtained on the main casing (86) and being connected to each other by the insertion of said cylindrical pin (92) in said at least one shaped slot (98), so that a horizontal displacement of the disengaging cursor (96) is adapted to generate a vertical movement of said at least one latch (88).

2. Case (10) according to claim 1, characterised in that on a predefined portion of the supporting structure (16), a first plate (48) is made integral, on which a flanging (50) is obtained, which is configured to cooperate with said second releasable engaging means (28) in order to allow said base portion (12) to engage on said supporting structure (16), and a second plate (52) is also made integral on it, said second plate (52) is adapted to act as an anti-intrusion barrier to protect said second releasable engaging means (28) from possible theft attempts of the case (10).

3. Case (10) according to claim 1, characterised in that on a predefined portion of the supporting structure (16) a bar (158) is made integral, on which one or more engagement teeth (160) are integrally formed, said teeth being configured to cooperate with said second releasable engaging means (28) in order to allow the engagement of said base portion (12) on said supporting structure (16), wherein on said bar (158), at each tooth (160), one or more caps (162) are fixed, said caps (162) are adapted to act as an anti-intrusion barrier

for protecting said second releasable engaging means (28) from possible theft attempts of the case (10).

4. Case (10) according to claim 3, characterised in that it comprises an engagement indicator device which is adapted to allow the user to understand whether the engagement of the case (10) to the relative supporting structure (16) has occurred in the correct manner, said engagement indicator device being made up of one or more indicating components (166), enclosed between the bar (158) and the respective caps (162) and capable of rotating with respect to the supporting structure (16), said one or more indicating components (166) being configured to be activated by said second releasable engaging means (28) so as to selectively show the user a portion (170) provided with two separate indicating signals, a first signal for indicating the condition in which the case (10) is not engaged with the relative supporting structure (16) and a second signal for indicating the condition in which the case (10) is correctly engaged with the relative supporting structure (16).

5. Case (10) according to any one of claims 1 to 4, characterised in that it comprises a plurality of rubber buffers (54; 164) applied to the supporting structure (16) or to the base portion (12), said rubber buffers (54; 164), in the engaged configuration of the case (10), being adapted to go into contrast and to deform against said base portion (12) or against said supporting structure (16) for zeroing the assembly clearances and thus avoiding annoying vibrations and noise for the user.

6. Case (10) according to claim 1, characterised in

that said main casing (86) comprises at least one cylindrical spring (94) acting by compression, said cylindrical spring (94) is adapted to allow the movement of said at least one latch (88) in the vertical direction.

7. Case (10) according to claim 1, characterised in that said second releasable engaging means (28) further comprise a fixing bracket (102), fixed to the base portion (12) and provided with two first through-holes (104), and a disengaging lever (106), provided with a gripping handle (108) on one side and with two pairs of second through-holes (110, 124) on the opposite side, said disengaging lever (106) being attached in an articulated manner to said fixing bracket (102), by means of a first shaft (126) inserted through said first through-holes (104) and a pair of said second through-holes (110), and being then connected to said disengaging cursor (96) through a second shaft (128) inserted through said at least one eye (100) and the other pair of said second through-holes (124) so that, by acting on the gripping handle (108) and rotating the disengaging lever (106) outwards, the horizontal displacement of the disengaging cursor (96) is generated and, consequently, the displacement downwards of said at least one latch (88) until the interference between said at least one latch (88) and said supporting structure (16) is released in order to remove said base portion (12) from said supporting structure (16).

8. Case (10) according to any one of claims 1 to 7, characterised in that on the base portion (12) at least one shaped recess (24) is made integral, suitable for inserting into its inside at least one corresponding headed pin (26) obtained on the lower portion of the

supporting structure (16) in order to support said base portion (12) on said supporting structure (16).

9. Case (10) according to any one of claims 1 to 8, characterised in that said lock mechanism (18) is made up of a main body (56) wherein a lock (58) actuatable by said key (20) and constrained to an under-lock plate (64) provided with at least one tooth (68) is inserted, the rotation of said key (20) causing a corresponding rotation on said under-lock plate (64).

10. Case (10) according to claim 9, characterised in that on said rotating under-lock plate (64) an eccentric disk (66) is integrally obtained, which is coupled with a latch (70), the rotation of the key (20) and, consequently, the rotation of the assembly made of the lock (58) and of the under-lock plate (64) is adapted to generate,

by means of the action of said eccentric disk (66), the horizontal linear displacement of the latch (70) in order to selectively engage or disengage said second releasable engaging means (28).

11. Case (10) according to claim 9 or 10, characterised in that said lock mechanism (18) further comprises a hinge engaging tooth (72) which forms the first releasable engaging means between the base portion (12) and the cover (14) and whereon two slots (74) are obtained, which are coupled with a first pin (32) fixed to said cover (14).

12. Case (10) according to claim 11, characterised in that the hinge engaging tooth (72) is rotatably connected to the main body (56) of the lock mechanism (18) through a connecting rod (80) provided with two parallel pins (82, 84), one pin (82) being integral with said engaging tooth (72) and the other pin (84)

being integral with said main body (56) so that, thanks to said connecting rod (80), the engaging tooth (72) can roto-translate from a closed position to an open position of the lock mechanism (18).

13. Case (10) according to claim 11 or 12, characterised in that on the hinge engaging tooth (72) two protrusions (76) are further obtained, in order to allow the gripping by the user in the opening/closing steps of the cover (14), and a tailpiece (78) blockable below said at least one tooth (68) of the under-lock plate (64), so as to prevent the movement of said hinge engaging tooth (72) in the closed configuration of the case (10).

14. Case (10) according to any one of claims 11 to 13, characterised in that on the opposite side of the base portion (12) with respect to the side on which the lock mechanism (18) is permanently constrained, is provided a cursor mechanism (130) which, in a first operative configuration, is capable of keeping the cover (14) rotatably connected to the base portion (12) so as to allow the opening/closing with respect to said base portion (12) and, in a second operative configuration, is capable of decoupling the cover (14) with respect to the base portion (12) so as to allow it to be removed with respect to said base portion (12) and thus improve the accessibility of the case (10).

15. Case (10) according to claim 14, characterised in that the cover (14), on the opposite side with respect to that on which said first pin (32) is fixed, is provided with a second pin (132) which is engageable with the cursor mechanism (130).

16. Case (10) according to claim 15, characterised in

that the cursor mechanism (130) comprises a base plate (134), constrained to the base portion (12) and provided with slots (150) suitable for holding said second pin (132) in said first operative configuration.

17. Case (10) according to claim 16, characterised in that the cursor mechanism (130) further comprises a bottom (136), fitted vertically inside the base plate (134) and fixed to it through blind rivets (138), said bottom (136) having special housings (140) obtained on it, housing respective contrast springs (142) for a sliding cursor (144), provided, at the top, with recessed portions (152) which, in cooperation with the slots (150), are suitable for holding said second pin (132) in said first operative configuration.

18. Case (10) according to claim 17, characterised in that the bottom (136) is provided with a stop tooth (146) which is configured to be in contrast with a corresponding stop tooth (148) provided on the cursor (144), so as to prevent the cursor (144) from accidentally coming out from said bottom (136).

19. Case (10) according to any one of claims 15 to 18, characterised in that said second pin (132) is made integral with the cover (14) through a piece (154) provided with a flange (156), formed integrally from said piece (154), which partially covers said second pin (132) so that it is more difficult for people with bad intentions to act upon said second pin (132) with tools for theft.