

MOTORCYCLE BAG SUPPORTING AND TILTING KIT

The present invention relates to a supporting and tilting kit.

In the state of the art, supporting frames for
5 motorcycle bags are known that fix the bag to the frame without being able to tilt it.

When a motorcycle mounts an upper supporting frame for any upper bag and at least one lateral supporting frame for at least one lateral bag, it is not possible
10 to completely open the lid of the lateral bag as the opening is constrained by the presence of the upper bag mounted with the upper supporting frame. To open the lateral bag it is necessary to dismount the lateral bag from the lateral supporting frame, or dismount the upper
15 bag from the upper supporting frame.

An object of the present invention is that of realising a supporting and tilting kit per lateral bags so that the lids of the lateral bags can be completely opened even in the presence of a bag mounted with an
20 upper supporting frame, that the kit assures a secure support for the bag even when the bag is tilted, that the kit allows the bag to remain engaged with the supporting frame also in the tilted position.

According to the invention, such object is achieved
25 with a supporting and tilting kit according to claim 1.

Other features are envisaged in the dependent claims.

The features and advantages of the present invention will be more apparent from the following
30 description, which is to be understood as exemplifying and not limiting, with reference to the appended schematic drawings, wherein:

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figure 1 shows a plan view from the rear of a motorcycle which mounts two supporting and tilting kits per bags arranged laterally to the motorcycle according to the present invention in a tilted configuration, each
5 kit comprises a lateral supporting frame, each of which mounts a bag, the motorcycle also mounts an upper supporting frame which mounts another bag;

figure 2 is a perspective view of the supporting and tilting kit in the travel configuration, wherein
10 said supporting and tilting kit comprises said supporting frame comprising four tubular elements, wherein a first upper tubular element mounts a first upper supporting means engaged with an upper portion of the bag, wherein a second lower tubular element mounts
15 two second lower supporting means, each of which is engaged with a respective lower engaging means mounted with the bag, a tilting device comprises a supporting base mounted with the bag and a hooked element pivoted with the supporting base in the disengaged position, the
20 supporting base comprising a slider mounted slidably in the engaging position with the hooked element;

figure 3 is a side plan view of figure 2;

figure 4 shows a perspective view of the bag dismounted from the supporting frame, wherein the bag
25 mounts the tilting device with the slider in the engaging position with the hooked element and wherein the bag comprises a lower portion which mounts two second lower engaging means;

figure 5 is an enlarged view of figure 4 and shows
30 a second lower engaging means comprising an opening comprising a first portion and a second portion of a larger size than the first opening portion;

figure 6 shows a perspective view of the supporting and tilting kit in the tilted configuration, the first upper supporting means is disengaged from the bag and the two second supporting means remain engaged with
5 respective second lower engaging means mounted with a lower portion of the bag, wherein the bag is tilted at an angle with respect to a vertical geometric axis, the hooked element of the tilting and supporting device is in the engaged position with the first upper tubular
10 element, the bag is open;

figure 7 is a lateral plan view of figure 6, but with the bag closed;

figure 8 shows a perspective view of the bag dismounted from the supporting frame, wherein the bag
15 mounts the tilting device with the slider in the disengaging position and the hooked element rotated on a pin upwards in a position adapted to hook the hooked element with the first upper tubular element;

figure 9 shows a perspective view from below of the
20 tilting and supporting device with the hooked element in the disengaged position and with the slider in the engaging position with the supporting base;

figure 10 is a lateral plan view of figure 9;

figure 11 is a plan view from above of figure 9;

25 figure 12 shows a perspective view from below of the tilting and supporting device with the hooked element in the engaged position and with the slider in the disengaging position from the supporting base;

figure 13 is a lateral plan view of figure 12;

30 figure 14 is a plan view from above of figure 12;

figure 15 shows an exploded view of the tilting and supporting device which shows a pin and a torsion spring;

figure 16 shows a perspective view of the supporting frame that mounts the first upper supporting means and two second lower supporting means, wherein each second lower supporting means comprises a stem which comprises
5 a head of greater transverse dimensions with respect to transverse dimensions of the stem;

figure 17 shows a perspective view of an alternative supporting frame to the one shown in figure 16 which mounts two first upper supporting means;

10 figure 18 shows a perspective view of the second lower supporting means.

With reference to the aforementioned figures and in particular figure 1, a motorcycle is shown that mounts two supporting and tilting kits 10 for bags 100, 101
15 arranged laterally on the motorcycle. Each of the two kits 10 is in the tilted configuration. Each kit 10 comprises a lateral supporting frame 20, each of which mounts a lateral case 101. The motorcycle also mounts an upper supporting frame 20 which mounts another upper bag
20 100, 102.

The supporting and tilting kit 10 for at least one bag 100, 101 of a motorcycle is mounted laterally in the figures.

The supporting frame 20 is adapted to be associated
25 to a frame 200 of said motorcycle.

Said supporting frame 20 comprises at least two tubular elements 21-24, a first tubular element 21 and a second tubular element 22.

As shown in particular in figures 1-3, 6, 7 and 16
30 said first tubular element 21 is an upper portion of said supporting frame 20 and said second tubular element 22 is a lower portion of said supporting frame 20.

The supporting frame 20 shown in the figures comprises four tubular elements 21-24.

Said first tubular element 21 is spaced from said second tubular element 22. Said first tubular element 21
5 is arranged along a first upper geometric axis U and said second tubular element 22 is arranged along a second lower geometric axis L, wherein said first geometric axis U is parallel to said geometric axis L.

The supporting and tilting kit 10 comprises
10 supporting means 40, 50 mounted with said supporting frame 20 and adapted to be separably engaged with said at least one bag 100, 101.

Said supporting means 40, 50 comprise at least a first upper supporting means 50 mounted with said first
15 upper tubular element 21 and at least a second lower supporting means 40 mounted with said second lower tubular 22.

The kit 10 comprises engaging means 150, 140 mounted with said at least one bag 100, 101.

Said engaging means 140, 150 shown in the figures
20 comprise a first upper engaging means 150 adapted to be engaged with said at least a first upper supporting means 50 and two second lower engaging means 140, each second lower engaging means 140 is adapted to be engaged with
25 said at least a second supporting means 40.

The upper engaging means 150 is contained inside the bag 100. The upper supporting means 50 passes through an upper through opening in the bag 100 and is adapted to be engaged by the first upper engaging means 150.

30 As shown in particular in figures 1-8, said first engaging means 150 is mounted with an upper portion of said at least one bag 100, 101 and said second engaging

means 140 is mounted with a lower portion of said at least one bag 100, 101.

As shown in particular in figures 1-8, 16, 17, 18 said at least one second supporting means 40 mounted
5 with said second lower tubular element 22 comprises a stem 41 which extends along a longitudinal axis W from said second tubular element 22. Said stem 41 comprises a head 42. Said head 42 is of greater transverse dimensions with respect to transverse dimensions of said
10 stem 41. The transverse dimensions are measured on a transverse geometric plane which is perpendicular to said longitudinal axis W along which the stem 41 extends.

As shown in the figures said head 42 has a mushroom shape adapted to be quickly connected to a complementary
15 opening 60 of the second lower engaging means 140.

As shown particularly in figure 18 the second lower supporting means 40 comprises a support clamp comprising a first jaw 43 adapted to embrace a first portion of said second lower tubular element 22. The first jaw 43
20 comprises a first through hole, the support clamp of the second supporting means 40 comprises a second jaw 44 which embraces a second portion of said second tubular element 22 and also said second jaw 44 comprises a second through hole.

25 The second supporting means comprises a guide screw 45 comprising the head 42 and the stem 41 of a cylindrical body shape which comprises at least a threaded portion.

Said guide screw 45 is mounted through said first
30 through hole of said first jaw 43, through a through hole of said second tubular element 22, through said second through hole of said second jaw 44.

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As shown particularly in figure 5, said at least a second engaging means 140 comprises said opening 60. Said opening 60 comprises a first portion 61 adapted to allow an insertion of said stem 41 of said second
5 supporting means 40 and a second portion 62 of greater dimensions than said first portion 61 and adapted to permit the insertion of said head 42 of said second supporting means 40.

Said second supporting means 40 is adapted to pass
10 from an engaging configuration with said second engaging means 140 to a disengaging position of said second engaging means 140.

Said engaging configuration of said second supporting means 40 provides that said stem 41 is
15 inserted in said first portion 61 of said opening 60 and that said head 42 is flush against edge walls of said first portion 61 of said opening 60 to prevent the second supporting means 40 from disengaging from said opening 60 of the second engaging means 140.

Advantageously the head 42 of the second supporting
20 means 40 allows the bag 100, 101 to tilt maintaining the second supporting means 40 engaged with said second engaging means 140.

Said disengaging configuration of said second
25 supporting means 40 provides that said stem 41 is disengaged from said first portion 61 of said opening 60 and that said head 42 can pass through said second portion 62 of said opening 60.

As shown in particular in figures 9-15, the kit
30 comprises a tilting device 30 comprising a supporting base 31 mounted with said at least one bag 100, 101 and at least one hooked element 32.

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Said hooked element 32 comprises two spacer arms 321. Each spacer arm 321 comprises a first end 323 pivoted with said supporting base 31. A second end of the two spacer arms 321 comprises a hook portion 322 adapted to engage said first tubular element 21.

Said hooked element 32 is adapted to rotate pivoted from a disengaged position to a engaged position.

Said disengaged position of said hooked element 32 provides that said hook portion 322 is disengaged from said first tubular element 21 as shown in figures 2-4.

Said engaged position of said at least one hooked element 32 provides that said hook portion 322 is engaged to said first tubular element 21 as shown in figures 1, 6-8.

Said supporting and tilting kit 10 being adapted to switch from a travel configuration to a tilted configuration.

As shown in figures 2 and 3 said travel configuration of said supporting and tilting kit 10 provides that said at least a first supporting means 50 and said at least a second supporting means 40 are engaged with said at least one bag 100, 101 and that said hooked element 32 of said tilting device 30 is in said disengaged position.

As shown in figures 1, 6 and 7 said tilted configuration of said supporting and tilting kit 10 provides that said first supporting means 50 is disengaged from said bag 100, 101, that said second supporting means 40 is engaged with said bag 100, 101, that said bag 100, 101 is tilted at an angle θ with respect to a third geometric axis V and that said hooked element 32 is in said engaged position.

Said third geometric axis V is coplanar to a geometric plane passing through said first geometric axis U and through said second geometric axis L, wherein said third geometric axis V is perpendicular to said first U and said second geometric axis L.

As shown in figure 1 if the supporting and tilting kit 10 is mounted laterally to the frame 200 of the motorcycle, then the third geometric axis V is a vertical axis perpendicular to the ground.

The angle θ is between 0 and 60 sexagesimal degrees.

A constraint to the extension of the angle θ depends on the length of the spacer arms 321 of the hooked element 32 of the tilting device 30.

Another constraint to the extension of the angle θ depends on the length of the stem 41 and the transverse dimensions of the head 42 of the second supporting means 40, as the dimensions of the stem 41 and of the head 42 limit the maximum engaging angle between the second supporting means 40 and the second engaging means 140. Beyond said maximum engaging angle the bag 100, 101 is disengaged at least at the bottom from the supporting frame 20.

As shown in particular in figures 9-15 said first end 323 of said spacer arms 321 of said tilting device 30 is pivoted with said supporting base 31 by means of a pin 34 which mounts a torsion spring 33.

Said pin 34 is arranged along a fourth geometric axis H, wherein said fourth geometric axis H is parallel to a said first geometric axis U and consequently is parallel to said second geometric axis L.

Said torsion spring 33 switches from a position of higher torsion to a position of lower torsion to make

said hooked element 32 rotate around the pin 34.

Said position of higher torsion of said torsion spring 33 corresponds to said disengaged position of said at least one hooked element 32.

5 Said position of lower torsion of said torsion spring 33 corresponds to said engaged position of said at least one hooked element 32.

 Said supporting base 31 comprises a slider 35 slidably mounted with said supporting base 31. Said
10 slider 35 is adapted to pass from an engaging position with said hooked element 32 to a disengaging position from said hooked element 32 leaving the hooked element 32 free to rotate pivoted around the fourth geometric axis H.

15 As shown in particular in figures 9-11 said engaging position of said at least one slider 35 corresponds to said disengaged position of said at least one hooked element 32 and provides that at least a portion of said at least a slider 35 is engaged with at least a portion
20 of said at least one hooked element 32 to lock its pivoted rotation.

 As shown in particular in figures 12-14 said disengaging position of said at least one slider 35 corresponds with said engaged position of said at least
25 one hooked element 32 and provides that said at least one slider 35 is disengaged from said at least one hooked element 32 allowing the pivoted rotation.

 The slider 35 is slidably mounted with a seat 36 of the supporting base 31. Said seat 36 extends outwards so
30 that the slider 35 in the engaging position of at least a portion of the slider 35 is above an external surface of at least one of the two spacer arms 321 to lock the

hooked element 32 in the disengaged position.

The seat 36 comprises an upper through opening from which an upper portion of the slider protrudes, which is a lever 351 which extends from the slider in an external
5 direction to the bag 100, 101. Said lever 351 is used to manually slide the slider 35 from the engaging position to the disengaging position with the hooked element 32 and vice versa.

It is also provided that the lever 351 comprises a
10 safety catch to prevent the slider 35 from moving accidentally from one position to the other.

As shown in particular in figures 9-15 said hook portion 322 of said spacer arms 321 comprises a wall of a shape complementary to a shape of said first tubular
15 element 21 of said supporting frame 20. When said hook portion 322 is engaged with said first tubular element 21, then the wall of a complementary shape adheres for at least a portion with an external surface of said first tubular element 21.

Said hook portion 322 of said spacer arms 321
20 comprises a fin 324 which protrudes from an end of said wall of a complementary shape in the direction of said fourth geometric axis H. Said fin 324 advantageously allows the first tubular element 21 to be embraced more
25 securely.

The first end 323 of the hooked element 32 pivoted with said supporting base 31 is envisaged to be arranged on an upper portion of the bag 100, 101 so that once the slider 35 passes from the engaged position to the
30 disengaged position from the hooked element 32, the hooked element 32 can rotate pivoted and pushed by the torsion spring 33 from said disengaged position wherein

the hooked element 32 is adhering to a rear face 120 of the bag 100, 101 to the engaged position of said hooked element 32 with said first tubular element 21. Said hook portion 322 of the hooked element 32 engages the first
5 tubular element 21 from below. The complementary wall of the hook portion 322 and the fin 324 embrace the first tubular element 21 for at least a portion of the diameter of the first tubular element 21.

As shown in particular in figure 7 in the tilted
10 configuration of the kit 10 a second angle ϕ between the third geometric axis V and the spacer arms 321 is preferably an angle greater than 90 sexagesimal degrees so that the spacer arms 90 hangs from the top downwards, wherein the first end 323 pivoted with said supporting
15 base 31 is arranged at a height greater than the second end of the hook portion 322 engaged with said first tubular element 21. The height is measured in respect of the third geometric axis V starting from the second geometric axis L and going towards the first geometric
20 axis U.

Said supporting base 31 of the tilting device 30 is mounted with the rear face 120 of the bag 100, 101 facing the supporting frame 20. Said engaging means 140 and 150 are provided mounted with the rear face 120 of the bag
25 100, 101.

Advantageously the supporting and tilting kit 10 for bags 100 provides that a lid of the bag 100 can be completely opened even in the presence of a bag mounted so as to lock the opening of the lid when the kit 10 is
30 in the travel configuration.

Advantageously the kit 10 ensures a secure support for the bag 100 even when the bag 100 is tilted.

Advantageously the kit 10 allows the bag 100 to remain engaged with the supporting frame 20 also in the tilted position.

Alternatively, it is possible to provide that the
5 supporting frame 20 comprises only the first tubular element 21 and the second tubular element 22.

Alternatively, it is possible to provide that the bag 100 can also mount two or more tilting devices 30.

Alternatively, it is possible to provide that the
10 supporting and tilting kit 10 per at least a bag 100, 101 of a motorcycle can be mounted above the motorcycle in place of the upper supporting frame 20 in order to be able to tilt the upper bag 102 in respect of a geometric plane defined by the supporting frame 20. In this
15 alternative the first tubular element 21 is frontal, while the second tubular element 22 is posterior and the upper bag 100, 102 tilts by the angle θ upwards. Again alternatively depending on how we wish to tilt the bag, the first tubular element 21 is posterior and the second
20 tubular element 22 is frontal.

Alternatively, it is possible to provide that the lateral bag 101 can be tilted towards the front or the rear and in this case the first tubular element 21 and the second tubular element 22 are lateral tubular
25 elements of the supporting frame 20.

Alternatively, it is possible to provide that the bag 100, 101, 102 is replaced by an object of equivalent dimension, for example a tank or a saddle bag or other accessory of equivalent dimensions to those of a bag.

30 Alternatively, it is possible to provide that the supporting means 40, 50 are engaged directly with the bag 100 without engaging means 150, 140. In this

alternative it is possible to provide that the openings 60 for engaging the second supporting means 40 are made in the bag 100.

Alternatively, as shown in figure 17 there are two
5 first supporting means 50 which provide first alternative upper engaging means 150 which are engaging screws which are engaged in respective threaded through holes made in the bag 100.

Alternatively the second angle ϕ between the third
10 geometric axis V and the spacer arms 321 is between 10 and 170 sexagesimal degrees.

Alternatively, it is possible to provide that the supporting frame 20 is a sheet or plate adapted to be associated to the frame 200 of said motorcycle, wherein
15 said alternative supporting frame 20 comprises at least two portions 21-24, a first portion 21 and a second portion 22, wherein said first portion 21 is spaced from said second portion 22. Said first portion 21 is an upper portion of the supporting frame 20 and said second
20 portion 22 is a lower portion of the supporting frame 20. Said first portion 21 is arranged along the first geometric axis U and said second portion 22 is arranged along the second geometric axis L, dove said first geometric axis U is parallel to said second geometric
25 axis L.

Again alternatively it is provided that said supporting frame 20 is integral with said frame 200 of said motorcycle, so that the supporting means 40, 50 are mounted with said frame 200 of the motorcycle.

30 Alternatively the torsion spring 33 may be replaced by another equivalent elastic element, or the pin 34 and spring 33 system may be replaced by a counterweight

without spring.

Alternatively it is provided that said at least one slider 35 is rotatably mounted with said supporting base 31 and is adapted to pass from said engaging position
5 with said at least one hooked element 32 to said disengaging position from said at least one hooked element 32.

Alternatively said supporting means 40, 50 are mounted with said at least one bag 100, 101, 102, wherein
10 said at least a first supporting means 50 is mounted with said first portion of said at least one bag 100, 101, 102 and said at least a second supporting means 40 is mounted with said second portion of said at least one bag 100, 101, 102.

15 Alternatively said supporting base 31 of said at least one tilting device 30 is mounted with said supporting frame 20, wherein said hook portion 322 is adapted to engaging said first portion of said at least one bag 100, 101, 102.

20 The invention thus conceived is susceptible to many modifications and variants, all falling within the same inventive concept; furthermore, all details can be replaced by equivalent technical elements. In practice, the materials used, as well as the dimensions thereof,
25 can be of any type according to the technical requirements.

CLAIMS

1. A supporting and tilting kit (10) for at least one bag (100, 101, 102) of a motorcycle, said supporting and tilting kit (10) comprises

5 a supporting frame (20) adapted to be associated with a frame (200) of said motorcycle, wherein said supporting frame (20) comprises at least two portions (21-24), a first portion (21) and a second portion (22), wherein said first portion (21) is spaced from said
10 second portion (22), wherein said first portion (21) is positioned along a first geometric axis (U), and said second portion (22) is positioned along a second geometric axis (L), wherein said first geometric axis (U) is parallel to said second geometric axis (L),

15 supporting means (40, 50) are adapted to separably engage said supporting frame (20) and said at least one bag (100, 101, 102), wherein said supporting means (40, 50) comprise at least a first supporting means (50) adapted to engage said first portion (21) of said
20 supporting frame (20) and a first portion of said at least one bag (100, 101, 102) corresponding to said first portion (21) of said supporting frame (20), and at least one second supporting means (40) adapted to engage said second portion (22) of said supporting frame (20) and a
25 second portion of said at least one bag (100, 101, 102) corresponding to said second portion (22) of said supporting frame (20),

at least one tilting device (30) comprising a supporting base (31) and at least one hooked element
30 (32), wherein said at least one hooked element (32) comprises at least one spacer arm (321), comprising a first end (323) pivoted with said supporting base (31)

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and a second end, which comprises a hook portion (322) adapted to engage said first portion (21) of said supporting frame (20) with said first portion of said at least one bag (100, 101, 102), said at least one hooked
5 element (32) being adapted to rotate pivoted from a disengaged position to an engaged position,

said disengaged position of said at least one hooked element (32) provides that said hook portion (322) releases said first portion (21) of said supporting frame
10 (20) from said first portion of said at least one bag (100, 101, 102),

said engaged position of said at least one hooked element (32) provides that said hook portion (322) engages said first portion (21) of said supporting frame
15 (20) to said first portion of said at least one bag (100, 101, 102),

said supporting and tilting kit (10) being adapted to switch from a travel configuration to a tilted configuration,

20 said travel configuration of said supporting and tilting kit (10) provides that said at least one first supporting means (50) said at least one second supporting means (40) engage said at least one bag (100, 101, 102) with said supporting frame (20), and that said hooked
25 element (32) of said tilting device (30) is in said disengaged position,

said tilted configuration of said supporting and tilting kit (10) provides that said at least one first supporting means (50) disengages said first portion of
30 said at least one bag (100, 101, 102) from said first portion (21) of said supporting frame (20), which said at least one second supporting means (40) engages said

second portion of said at least one bag (100, 101, 102) with said second portion (22) of said supporting frame (20) , that said at least one bag (100, 101, 102) is tilted at an angle (θ) with respect to a third geometric axis (V) and that said hooked element (32) is in said engaged position, wherein said third geometric axis (V) is coplanar to a geometric plane passing through said first geometric axis (U) and for said second geometric axis (L), wherein said third geometric axis (V) is perpendicular to said first (U) and said second geometric axis (L).

2. A supporting and tilting kit (10) according to claim 1, characterised in that said supporting means (40, 50) are mounted with said supporting frame (20), wherein said at least one first supporting means (50) is mounted with said first portion (21) of said supporting frame (20) and said at least one second supporting means (40) is mounted with said second portion (22) of said supporting frame (20).

3. A supporting and tilting kit (10) according to claim 1, characterised in that said supporting means (40, 50) are mounted with said at least one bag (100, 101, 102), wherein said at least one first supporting means (50) is mounted with said first portion of said at least one bag (100, 101, 102) and said at least one second supporting means (40) is mounted with said second portion of said at least one bag (100, 101, 102).

4. A supporting and tilting kit (10) according to any one of claims 1-3, characterised in that said supporting base (31) of said at least one tilting device (30) is mounted with said at least one bag (100, 101, 102), wherein said hook portion (322) is adapted to

engage said first portion (21) of said supporting frame (20).

5 5. A supporting and tilting kit (10) according to any one of claims 1-4, characterised in that said hook portion (322) of said spacer arm (321) comprises a wall of a shape complementary to a shape of said first portion (21) of said supporting frame (20).

10 6. A supporting and tilting kit (10) according to claim 5, characterised in that said hook portion (322) of said spacer arm (321) comprises at least one fin (324), which protrudes from an end of said complementary shaped wall in the direction of the said fourth geometric axis (H).

15 7. A supporting and tilting kit (10) according to any one of claims 1-3, characterised in that said supporting base (31) of said at least one tilting device (30) is mounted with said supporting frame (20), wherein said hook portion (322) is adapted to engage said first portion of said at least one bag (100, 101, 102).

20 8. A supporting and tilting kit (10) according to any one of claims 1-7, characterised in that said first end (323) of said at least one spacer arm (321) of said at least one tilting device (30) is pivoted with said supporting base (31) by means of a pin (34),

25 wherein said pin (34) is positioned along a fourth geometric axis (H), wherein said fourth geometric axis (H) is parallel to said first geometric axis (U).

30 9. A supporting and tilting kit (10) according to claim 8, characterised in that said pin (34) mounts a torsion spring (33),

wherein said torsion spring (33) switches from a position of higher torsion to a position of lower

torsion,

wherein said position of higher torsion of said torsion spring (33) corresponds to said disengaged position of said at least one hooked element (32),

5 wherein said position of lower torsion of said torsion spring (33) corresponds to said engaged position of said at least one hooked element (32).

10 10. A supporting and tilting kit (10) according to any one of claims 1-9, characterised in that said supporting base (31) comprises at least one slider (35) mounted with said supporting base (31), said at least one slider (35) is adapted to switch from an engaging position with said at least one hooked element (32) to a disengaging position from said at least one hooked
15 element (32),

wherein said engaging position of said at least one slider (35) corresponds to said disengaged position of said at least one hooked element (32) and provides that at least a portion of said at least one slider (35) is
20 engaged with at least one portion of said at least one hooked element (32) to lock its pivoted rotation,

wherein said disengaging position of said at least one slider (35) corresponds with said coupling position of said at least one hooked element (32) and provides
25 that said at least one slider (35) is disengaged from said at least one hooked element (32) allowing the pivoted rotation.

11. A supporting and tilting kit (10) according to any one of claims 1-10, characterised in that said tilted
30 configuration of said supporting and tilting kit (10) provides that a second angle (ϕ) between said third geometric axis (V) and said spacer arm (321) is between

10 and 170 sexagesimal degrees.

12. A supporting and tilting kit (10) according to claim 11, characterised in that said second angle (ϕ) is greater than 90 sexagesimal degrees.

5 13. A supporting and tilting kit (10) according to any one of claims 1-12, characterised in that it comprises engaging means (140, 150) mounted with said at least one bag (100, 101, 102), said engaging means (140, 150) comprising at least a first engaging means (150) adapted to be engaged with said at least one first supporting means (50) and at least one second engaging means (140) adapted to be engaged with said at least one second supporting means (40).

15 14. A supporting and tilting kit (10) according to claim 13, characterised in that said first engaging means (150) is mounted with said first portion, which is an upper portion of said at least one bag (100, 101, 102) and said second engaging means (140) is mounted with said second portion, which is a lower portion of said at least one bag (100, 101, 102), said first portion (21) is an upper portion of said supporting frame (20) and said second portion (22) is a lower portion of said supporting frame (20).

25 15. A supporting and tilting kit (10) according to any one of claims 13 or 14, characterised in that said at least one second supporting means (40) is mounted with said second portion (22) of said supporting frame (20) and comprises a stem (41), which extends from said second portion (22), said stem (41) comprising a head (42), said head (42) being of greater transverse dimensions with respect to transverse dimensions of said stem (41),

that said at least one second engaging means (140) comprises an opening (60), said opening (60) comprises a first portion (61) adapted to allow an insertion of said stem (41) of said at least one second supporting means (40) and a second portion (62) of dimensions greater than said first portion (61) and adapted to allow an insertion of said head (42) of said at least one second supporting means (40),

said at least one second supporting means (40) being adapted to switch from an engaging configuration with said at least one second engaging means (140) to a disengaging position from said second engaging means (140),

wherein said engaging configuration of said second supporting means (40) provides that said stem (41) is inserted in said first portion (61) of said opening (60) and that said head (42) is flush against edge walls of said first portion (61) of said opening (60),

wherein said disengaging configuration of said second supporting means (40) provides that said stem (41) is disengaged from said first portion (61) of said opening (60) and that said head (42) can pass through said second portion (62) of said opening (60).

16. A supporting and tilting kit (10) according to any one of the preceding claims, characterised in that said at least two portions of said supporting frame (20) are at least two tubular elements (21-24), said first portion (21) is a first tubular element and said second portion is a second tubular element (22), wherein said first tubular element (21) is positioned along said first geometric axis (U) and said second tubular element (22) is positioned along said second geometric axis (L).

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17. A supporting and tilting kit (10) according to any one of the preceding claims, characterised in that said supporting frame (20) is one piece with said frame (200) of said motorcycle.