CLAIMS

1. A lens mount configured to be detachably mountable to a camera mount that includes a convex portion and a plurality of engagement portions, the lens mount comprising:

a plurality of engagement portions configured to enable engagement with the plurality of engagement portions of the camera mount, and an abutted portion configured to be abutted against the convex portion in a state of the lens mount mounted to the camera mount,

wherein the plurality of engagement portions include first and second engagement portions that are adjacent to the abutted portion in a circumferential direction in the state, and an opposite side engagement portion provided on an opposite side of the abutted portion with respect to the first and second engagement portions in the circumferential direction in the state, and

wherein the following inequalities are satisfied:

$75° \leq \theta 10 \leq 105°$,

$75° \leq \theta 20 \leq 105°$,

$75° \leq \theta 30 \leq 105°$, and

$75° \leq \theta L \leq 105°$,

where, in a quadrangle formed by connecting a center of the opposite side engagement portion, a center of the second engagement portion, a center of the first engagement portion, and a center of the abutted portion in the state, θ10 is an internal angle in which a vertex thereof is the center of the opposite side engagement portion, θ20 is an internal angle in which a vertex thereof is the center of the second engagement portion, θ30 is an internal angle in which a vertex thereof is the center of the first engagement portion, and θL is an internal angle in which a vertex thereof is the center of the abutted portion.

2. A lens mount configured to be detachably mountable to a camera mount that includes a convex portion and a plurality of engagement portions, the lens mount comprising:

a plurality of engagement portions configured to enable engagement with the plurality of engagement portions of the

camera mount, and an abutted portion configured to be abutted against the convex portion in a state of the lens mount mounted to the camera mount,

wherein the plurality of engagement portions include first and second engagement portions that are adjacent to the abutted portion in a circumferential direction in the state, and an opposite side engagement portion provided on an opposite side of the abutted portion with respect to the first and second engagement portions in the circumferential direction in the state, and

wherein the following inequalities are satisfied:

$60° \leq \theta 10 \leq 100°$,

$60° \leq \theta 20 \leq 100°$,

$60° \leq \theta 30 \leq 100°$, and

$60° \leq \theta L \leq 100°$,

where, in a quadrangle formed by connecting a center of the opposite side engagement portion, a center of the second engagement portion, a center of the first engagement portion, and a center of the abutted portion in the state, $\theta 10$ is an internal angle in which a vertex thereof is the center of the opposite side engagement portion, $\theta 20$ is an internal angle in which a vertex thereof is the center of the second engagement portion, $\theta 30$ is an internal angle in which a vertex thereof is the center of the first engagement portion, and θL is an internal angle in which a vertex thereof is the center of the abutted portion.

3. The lens mount according to Claim 2, wherein the following inequalities are satisfied:

$65° \leq \theta 10 \leq 100°$,

$65° \leq \theta 20 \leq 100°$,

$65° \leq \theta 30 \leq 100°$, and

$65° \leq \theta L \leq 100°$.

4. The lens mount according to Claim 2, wherein the following inequalities are satisfied:

$70° \leq \theta 10 \leq 100°$,

$70° \leq \theta 20 \leq 100°$,

$70° \leq \theta 30 \leq 100°$, and
$70° \leq \theta L \leq 100°$.

5. The lens mount according to any one of Claims 1 to 4,
wherein at least one among the aforementioned θ10, θ20, θ30, and θL is in a range of 85° to 95°, inclusive.

6. The lens mount according to any one of Claims 1 to 5, wherein the following inequality is satisfied:
$85° \leq 0\theta \leq 95°$.

7. The lens mount according to any one of Claims 1 to 5, wherein the following inequality is satisfied:
$90° \leq \theta L \leq 95°$.

8. The lens mount according to anyone of Claims 1 to 7, wherein the following inequality is satisfied:
$0.75 \leq \theta 30/\theta 20 \leq 1.25$.

9. The lens mount according to any one of Claims 1 to 7, wherein the following inequality is satisfied:
$0.85 \leq \theta 30 / \theta 20 \leq 1.15$.

10. The lens mount according to any one of Claims 1 to 7, wherein the following inequality is satisfied:
$0.95 \leq \theta 30 / \theta 20 \leq 1.05$.

11. The lens mount according to any one of Claims 1 to 10, wherein the following inequality is satisfied:
$1.00 < \theta 1/\theta 2 \leq 1.40$,
where , when viewed in a direction of a central axis of the lens mount, a reference line is a line that passes through the central axis and a center of the abutted portion, θ1 is an angle formed between a line that passes through the central axis and an end of the first engagement portion that is closer to the abutted portion, and the reference line, and θ2 is an angle formed between a line that passes through the central

axis and an end of the second engagement portion that is closer to the abutted portion, and the reference line.

12. The lens mount according to Claim 11,
wherein the following inequality is satisfied:
$1.00 < \theta 1/\theta 2 \leq 1.35$.

13. The lens mount according to any one of Claims 1 to 12, wherein when viewed in a direction of a central axis of the lens mount, a line that passes through the central axis and a center of the abutted portion, and the opposite engagement portion overlap each other.

14. The lens mount according to any one of Claims 1 to 13,
wherein the following inequality is satisfied:
$0.6 \leq \theta 3/\theta 4 \leq 0.9$,
where , when viewed in a direction of a central axis of the lens mount, a reference line is a line that passes through the central axis and a center of the abutted portion, and θ3 is an angle formed between a line that passes through an end of the opposite side engagement portion that is on a side of the first engagement portion, and the central axis, and the reference line, and 04 is an angle formed between a line that passes through an end of the opposite side engagement portion that is on the side of the second engagement portion, and the central axis, and the reference line.

15. The lens mount according to Claim 14,
wherein the following inequality is satisfied:
$0.6 \leq \theta 3 / \theta 4 \leq 0.8$.

16. The lens mount according to any one of Claims 1 to 15, wherein the following inequalities are satisfied:
$40^0 < \theta 1 < 70^0$, and
$40^0 < \theta 2 < 70^0$,
where , when viewed in a direction of a central axis of the lens mount, a reference line is a line that passes through the central axis and a center of the abutted portion, and θ1 is an

angle formed between a line that passes through the central axis and an end of the first engagement portion that is closer to the abutted portion, and the reference line, and θ2 is an angle formed between a line that passes through the central axis and an end of the second engagement portion that is closer to the abutted portion, and the reference line.

17. The lens mount according to any one of Claims 1 to 16, wherein, when viewed in a direction of a central axis of the lens mount, a line that is orthogonal to a line passing through the central axis and the abutted portion, and that passes through the central axis overlaps both the first and second engagement portions.

18. The lens mount according to any one of Claims 1 to 17, wherein a dimension of a cutaway between the first and second engagement portions in a circumferential direction is larger than dimensions of a cutaway between the first engagement portion and the opposite side engagement portion, and a cutaway between the opposite engagement portion and the second engagement portion in the circumferential direction.

19. The lens mount according to any one of Claims 1 to 18, wherein the following inequality is satisfied:

$$0.75 \leq \theta 7 / \theta 8 \leq 1.25,$$

where the plurality of engagement portions of the camera mount include third and fourth engagement portions that are adjacent to the convex portion in the circumferential direction, and when viewed in a direction of a central axis of the lens mount in a state of being in contact with the camera mount, a reference line is a line that passes through the central axis and a center of the convex portion, and θ7 is a minimum value of an angle formed between a line that passes through a point that is, in a region where the first and third engagement portions overlap each other, nearest to the convex portion, and the central axis, and the reference line, and θ8 is a minimum value of an angle formed between a line that passes through a point that is, in a region where the second and fourth engagement portions overlap

each other, nearest to the convex portion, and the central axis, and the reference line.

20. The lens mount according to Claim 19, wherein the following inequality is satisfied:

$0.80 \leq \theta 7 / \theta 8 \leq 1.20$.

21. The lens mount according to any one of Claims 1 to 20, wherein the following inequalities are satisfied:

$90^0 < \theta 7 + \theta 8 < 180^0$; and

$90^0 < \theta 9 + \theta 8 < 180^0$,

where the plurality of engagement portions of the camera mount include third bayonet and fourth engagement portions that are adjacent to the convex portion in the circumferential direction, and

when viewed in a direction of a central axis of the lens mount in a state of being in contact with the camera mount, a reference line is a line that passes through the central axis and a center of the convex portion, and $\theta 7$ and $\theta 9$ are a minimum value and a maximum value of an angle formed between a line that passes through a point that is, in a region where the first and third engagement portions overlap each other, nearest to the convex portion, and the central axis, and the reference line, and $\theta 8$ is a minimum value of an angle formed between a line that passes through a point that is, in a region where the second and fourth engagement portions overlap each other, nearest to the convex portion, and the central axis, and the reference line.

22. The lens mount according to Claim 21, wherein the following inequalities are satisfied:

$90° \leq \theta 7 + \theta 8 \leq 110°$, and

$140° \leq \theta 9 + \theta 8 \leq 170°$.

23. The lens mount according to any one of Claims 1 to 22, wherein the following inequalities are satisfied:

$45° \leq \theta 7$, and

$45° \leq \theta 8$,

where the plurality of engagement portions of the camera mount include third and fourth engagement portions that are adjacent to the convex portion in the circumferential direction, and

when viewed in a direction of a central axis of the lens mount in a state of being in contact with the camera mount, a reference line is a line that passes through the central axis and a center of the convex portion, and $\theta 7$ is a minimum value of an angle formed between a line that passes through a point that is, in a region where the first and third engagement portions overlap each other, nearest to the convex portion, and the central axis, and the reference line, and $\theta 8$ is a minimum value of an angle formed between a line that passes through a point that is, in a region where the second and fourth engagement portions overlap each other, nearest to the convex portion, and the central axis, and the reference line.

24. The lens mount according to any one of Claims 1 to 23,

wherein the plurality of engagement portions of the camera mount include third and fourth engagement portion that are adjacent to the convex portion in a circumferential directions, and a fifth engagement portion positioned on an opposite side of the convex portion with respect to the third and fourth engagement portions in the circumferential direction, and

wherein when viewed in a direction of a central axis of the lens mount in a state of being mounted to the camera mount, among sides of a hexagon connecting both ends in a region where the first and the third engagement portions overlap each other, both ends in a region where the second and fourth engagement portions overlap each other, and both ends in a region where the opposite side engagement portion and the fifth engagement portion overlap each other, the side nearest to the convex portion is a longest side.

25. The lens mount according to any one of Claims 1 to 24, wherein the plurality of engagement portions of the camera mount include third and fourth engagement portions that are adjacent

to the convex portion in the circumferential direction, and a fifth engagement portion positioned on an opposite side of the convex portion with respect to the third and fourth engagement portions in the circumferential direction, and wherein a dimension of a cutaway between the third and fourth engagement portions in the circumferential direction is larger than a dimension of a cutaway between the third and fifth engagement portions in the circumferential direction.

26. The lens mount according to any one of Claims 1 to 25, wherein the plurality of engagement portions of the camera mount include third and fourth engagement portions that are adjacent to the convex portion in the circumferential direction, and a fifth engagement portion positioned on an opposite side of the convex portion with respect to the third and fourth engagement portions in the circumferential direction, and wherein a dimension of a cutaway between the third and fourth engagement portions in the circumferential direction is larger than a dimension of a cutaway between the fourth and fifth engagement portions in the circumferential direction.

27. The lens mount according to any one of Claims 1 to 26, wherein a dimension of the second engagement portion in the circumferential direction is larger than a dimension of the first engagement portion in the circumferential direction.

28. The lens mount according to any one of Claims 1 to 27, wherein a dimension of the second engagement portion in the circumferential direction is larger than a dimension of the opposite side engagement portion in the circumferential direction.

29. The lens mount according to any one of Claims 1 to 28, wherein when the lens mount is in a normal position, the second engagement portion is positioned on a gravity

direction side with respect to the first engagement portion.

30. An accessory comprising the lens mount according to any one of Claims 1 to 29 and an optical system.

31. An accessory configured to be detachably mountable to a lens apparatus, comprising the lens mount according to any one of Claims 1 to 29.

32. A camera mount configured to be detachably mountable to the lens mount according to any one of Claims 1 to 29, comprising the plurality of engagement portions and the convex portion.

33. An image pickup apparatus comprising the camera mount according to Claim 32 and an image pickup element.