

CLAIMS

1. A container connector that is connectable to a container, comprising:

5 a base in which a flow path is formed,
an engagement section disposed on a virtual circle set to the base,

a guiding section disposed continuously with the engagement section, and having a guide surface formed as a curved surface to guide the container to the engagement section and facing a side of an axis of the virtual circle, and

an arm provided ~~in~~on the base, and movably supporting the guiding section in a direction toward the axis of the virtual circle and a direction away from the axis of the virtual circle,

wherein a pair of guiding sections and a pair of engagement sections are provided on the arm symmetrically to a second virtual plane that is orthogonal to a first virtual plane that passes along the axis of the virtual circle and is parallel to the axis of the virtual circle, and

wherein the pair of guiding sections provided in the arm are continuously formed,

25 the axis of the virtual circle has a vertical direction and in a cross section of each one of the pair of ~~the~~ guiding section in a horizontal direction to the axis

of the virtual circle, one side end of each one of the pair
of ~~the~~ guide surfaces on a side of the second virtual plane
is located at a position away from the first virtual plane
that passes through the axis of the virtual circle relative
5 to another side end of the pair of guide surfaces on a side
opposite to the second virtual plane, in a direction
orthogonal to the axis of the virtual circle and parallel
to the second virtual plane,

the one side end of the guide surface is formed as a
10 straight line or a curved line, and

the guide surface is formed as a curved surface so
that a radius of curvature decreases from a side of the one
side end toward a side of the another side end.

2. The container connector according to claim 1,
15 wherein a pair of the arms are provided.

3. The container connector according to claim 1,
wherein a pair of the arms are provided symmetrically to
the first virtual plane,

the guiding section extends from the engagement
20 section in an axial direction of the virtual circle, and

the guide surface is formed as a curved surface
including a tangent line having an inclination angle to the
first virtual plane which decreases with closer proximity
to the engagement section from an end portion of the guide
25 surface on a side opposite to the engagement section in the
axial direction.

4. The container connector according to claim 1,

wherein the one side end of the guide surface is formed as a straight line,

an inclination angle of a tangent line of an end portion of the other side end of the guide surface on a side of the engagement section to the first virtual plane is smaller than an inclination angle of an extension of the one side end of the guide surface to the first virtual plane, and

an inclination angle of the tangent line of an end portion of the other side end of the guide surface on a side opposite to the engagement section to the first virtual plane is larger than the inclination angle of the extension of the one side end of the guide surface to the first virtual plane.

5. The container connector according to claim 1, wherein the arm comprises:

a first extending portion extending from the base to a side opposite to the guiding section in an axial direction of the virtual circle, and

a second extending portion turned up to the first extending portion and extending on a side of the guiding section.

6. Connection equipment comprising:

the container connector according to claim 1, and

a syringe connector removably formed in the base of the container connector, and including a flow path for the syringe connector which communicates with the flow path of

the base in a state of being attached to the base.

7. A container connector that is connectable to a container, comprising:

a base in which a flow path is formed,

5 an engagement section disposed on a virtual circle set to the base,

a guiding section disposed continuously with the engagement section, and having a guide surface formed as a curved surface to guide the container to the engagement section and facing a side of an axis of the virtual circle,
10 and

an arm provided ~~in-on~~ the base, and movably supporting the guiding section in a direction toward the axis of the virtual circle and a direction away from the axis of the
15 virtual circle, wherein the arm comprises:

a first extending portion extending from the base to a side opposite to the guiding section in an axial direction of the virtual circle, and

a second extending portion turned up to the first
20 extending portion and extending on a side of the guiding section.

8. The container connector according to claim 7, wherein a pair of the arms are provided.

9. The container connector according to claim 7,
25 wherein a pair of the arms are provided symmetrically to a first virtual plane that passes along the axis of the virtual circle and is parallel to the axis of the virtual

circle,

the guiding section extends from the engagement section in an axial direction of the virtual circle, and

the guide surface is formed as a curved surface

5 including a tangent line having an inclination angle to the first virtual plane which decreases with closer proximity to the engagement section from an end portion of the guide surface on a side opposite to the engagement section in the axial direction.

10 10. The container connector according to claim 9, wherein a pair of guiding sections and a pair of engagement sections are provided on the arm symmetrically to a second virtual plane that passes along the axis of the virtual circle and is orthogonal to the first virtual plane.

15 11. The container connector according to claim 10, wherein the pair of guiding sections provided in the arm are continuously formed,

the axis of the virtual circle has a vertical direction and in a cross section of the guiding section in a horizontal direction to the axis of the virtual circle,
20 one side end of the guide surface on a side of the second virtual plane is located at a position away from the axis of the virtual circle relative to another side end of the guide surface on a side opposite to the second virtual
25 plane, in a direction orthogonal to the axis of the virtual circle and parallel to the second virtual plane,

the one side end of the guide surface is formed as a

straight line or a curved line, and

the guide surface is formed as a curved surface so that a radius of curvature decreases from a side of the one side end toward a side of the another side end.

5 12. The container connector according to claim 11, wherein the one side end of the guide surface is formed as a straight line,

an inclination angle of a tangent line of an end portion of the other side end of the guide surface on a
10 side of the engagement section to the first virtual plane is smaller than an inclination angle of an extension of the one side end of the guide surface to the first virtual plane, and

an inclination angle of the tangent line of an end
15 portion of the other side end of the guide surface on a side opposite to the engagement section to the first virtual plane is larger than the inclination angle of the extension of the one side end of the guide surface to the first virtual plane.

20 13. Connection equipment comprising:

the container connector according to claim 7, and

a syringe connector removably formed in the base of the container connector, and including a flow path for the syringe connector which communicates with the flow path of
25 the base in a state of being attached to the base.