CLAIMS

1. A lock mechanism for locking engagement between a first member including a barrel section formed in a cylindrical shape and formed with a hole extending through in a radial direction and a second member inserted into the barrel section from one end of the barrel section, comprising:

an engaged section formed on an outer surface of the second member; and

an engagement member having one end portion fixed to an edge of the hole and being a member long in an axial direction of the barrel section, the engagement member including an operating section formed in another end portion and having a gap with respect to the second member in the radial direction, a fulcrum section formed continuously from the operating section in the axial direction of the barrel section and configured to contact the second member in a state in which the operating section is pressed inward in the radial direction, an engaging section formed continuously from the fulcrum section in the axial direction, formed in a convex shape protruding inward in the radial direction, and engaging with the engaged section in the axial direction, and a deformation section formed continuously from the engaging section in the axial direction and configured to be bent to move the engaging section outward in the radial direction when the operating section is pressed inward in the radial direction.

2. The lock mechanism of claim 1, further comprising a posture adjustment section formed between the engaging section and the fulcrum section, and configured to hold, in a posture at the time of engagement with the engaged section, the engaging section at the time of movement by bending of the deformation section when the operating section is pressed inward in the radial direction.

3. An equipment connector comprising:

a barrel section fixed to a container, including a container-side flow path constituting portion, formed in a cylindrical shape so that a container connector including an engaged section on an outer surface is insertable from one end, and having a hole formed at a position facing the container connector in a radial direction;

an equipment-side flow path constituting portion stored in the barrel section and configured to communicate with the container-side flow path constituting portion when the container connector is inserted into the barrel section; and

an engagement member having one end portion fixed to an edge of the hole and being a member long in an axial direction of the barrel section, the engagement member including an operating section formed in another end portion and having a gap with respect to the container connector in the radial direction, a fulcrum section formed continuously from the operating section in the axial direction and configured to contact the container connector

in a state in which the operating section is pressed inward in the radial direction, an engaging section formed continuously from the fulcrum section in the axial direction, formed in a convex shape protruding inward in the radial direction, and engaging with the engaged section in the axial direction in a state in which the container-side flow path constituting portion and the equipment-side flow path constituting portion communicate with each other, and a deformation section formed continuously from the engaging section in the axial direction and configured to be bent to move the engaging section outward in the radial direction when the operating section is pressed inward in the radial direction.

4. The equipment connector of claim 3, further comprising a posture adjustment section formed between the engaging section and the fulcrum section, and configured to hold, in a posture at the time of engagement with the engaged section, the engaging section at the time of movement by bending of the deformation section when the operating section is pressed inward in the radial direction.

~~5. A container connector comprising:~~

~~an insertion section configured to be insertable into a cylindrical barrel section of an equipment connector for fixing an equipment, which includes an equipment-side flow path constituting portion and includes the barrel section formed with a hole extending through in a radial direction,~~

~~from one end of the barrel section;~~

~~a container fixing section fixed to the container;~~

~~a container-side flow path constituting portion formed in the insertion section and the container fixing portion and configured to communicate with an interior of the container when the container fixing section is fixed to the container and communicate with the equipment-side flow path constituting portion when the insertion section is inserted into the barrel section; and~~

~~an engaged section formed in the insertion portion and configured to, in a state in which the container-side flow path constituting portion and the equipment side flow path constituting portion communicate with each other, be engaged with an engaging section of an engagement member of the equipment connector, which includes an operating section, a fulcrum section formed continuously from the operating section in an axial direction of the barrel section and configured to contact the insertion section in a state in which the operating section is pressed inward in a radial direction of the barrel section, the engaging section formed continuously from the fulcrum section in the axial direction and formed in a convex shape protruding inward in the radial direction, and a deformation section formed continuously from the engaging section in the axial direction and configured to be bent to move the engaging section outward in the radial direction when the operating section is pressed inward in the radial direction.~~

~~6~~5. A connection equipment comprising:

a container connector fixed to a container, including a container-side flow path constituting portion, and formed with an engaged section on an outer surface; and

an equipment connector including a barrel section formed in a cylindrical shape so that the container connector is insertable from one end and having a hole formed at a position facing the container connector in a radial direction, an equipment-side flow path constituting portion stored in the barrel section and configured to communicate with the container-side flow path constituting portion when the container connector is inserted into the barrel section, and an engagement member having one end portion fixed to an edge of the hole and being a member long in an axial direction of the barrel section, the engagement member including an operating section formed in another end portion and having a gap with respect to the container connector in the radial direction, a fulcrum section formed continuously from the operating section in the axial direction and configured to contact the container connector in a state in which the operating section is pressed inward in the radial direction, an engaging section formed continuously from the fulcrum section in the axial direction, formed in a convex shape protruding inward in the radial direction, and engaging with the engaged section in the axial direction in a state in which the container-side flow path constituting portion and the

equipment-side flow path constituting portion communicate with each other, and a deformation section formed continuously from the engaging section in the axial direction and configured to be bent to move the engaging section outward in the radial direction when the operating section is pressed inward in the radial direction.