WHAT IS CLAIMED IS:

[Claim 1]

A toner cartridge, comprising:

a casing extending in a first direction, the casing including a first toner chamber, the first toner chamber having a first interior space defined therein for storing toner, and a first opening positioned at one end portion of the first toner chamber in the first direction, the first opening allowing the toner in the first toner chamber to flow out of the casing;

a toner conveyance unit extending in the first direction and rotatable about a first axis extending in the first direction, the toner conveyance unit configured to convey the toner from the first interior space to the first opening;

a first cover located at the one end portion of the first toner chamber and covering the first opening, the first cover being movable together with the casing, the first cover having a second opening allowing the toner to flow out of the first cover; and

a shutter located at the one end portion of the first toner chamber, the shutter having a third opening, the shutter including a protrusion extending in the first direction and located farther from the one end portion of the first toner chamber than the first cover in the first direction;

wherein when the toner cartridge is attached to a developing unit, the protrusion is subjected to positioning with respect to the developing unit, and the casing is pivotable together with the first cover relative to the developing unit between a first position and a second position,

when the casing is at the first position, the shutter closes the second opening, and

when the casing is at the second position, at least a portion of the third opening overlaps at least a portion of the second opening, and the third opening allows the toner to flow out through the second opening.

[Claim 2]

The toner cartridge according to claim 1, further comprising a second cover at least partially covering and rotatably supporting a distal end portion of the protrusion, the second cover having a fourth opening from which at least a portion of the protrusion is exposed,

wherein when the toner cartridge is attached to the developing unit, the casing is pivotable together with the first cover and the second cover relative to the developing unit, between the first position and the second position.

[Claim 3]

The toner cartridge according to claim 2 or claim 3, wherein when the toner cartridge is attached to the developing unit, a portion of the protrusion exposed from the fourth opening is subjected to positioning relative to the developing unit.

[Claim 4]

The toner cartridge according to claim 2 or claim 3, wherein the second cover includes a lock member configured to lock the protrusion relative to the second cover, and

when the toner cartridge is mounted on the developing unit, the lock member unlocks the protrusion.

[Claim 5]

The toner cartridge according to claim 4, wherein the lock member is movable between a lock position in which the lock member locks the protrusion relative to the second cover, and an unlock position in which the lock member unlocks the protrusion relative to the second cover, and

when the toner cartridge is mounted to the developing unit, the lock member moves from the lock position to the unlock position by contacting the lock member with a portion of the developing unit.

[Claim 6]

The toner cartridge according to any one of claim 2 to claim 4, wherein the second cover includes a stopper that prevents the protrusion from rotating in an opposite direction opposite to a rotating direction of the casing relative to the shutter from the first position to the second position, when the casing is at the first position.

[Claim 7]

The toner cartridge according to claim 6, wherein when the casing is at the first position, the protrusion contacts the stopper by the rotation of the protrusion in the opposite direction..

[Claim 8]

The toner cartridge according to any one of claim 1 to claim 7, wherein the toner conveyance unit has a helical shape.

[Claim 9]

The toner cartridge according to any one of claim 1 to claim 7, wherein the toner conveyance unit includes an auger screw rotatable about the first axis.

[Claim 10]

The toner cartridge according to any one of claim 1 to claim 9, wherein a portion of the toner conveyance unit is located inside the first interior space, and

the first cover covers one end portion of the toner conveyance unit in the first direction.

[Claim 11]

The toner cartridge according to claim 10, wherein the toner conveyance unit extends to the second opening, and

the first cover extends along and covers a peripheral surface of the one end portion of the toner conveyance unit.

[Claim 12]

The toner cartridge according to any one of claim 1 to claim 11, wherein the toner conveyance unit extends to the second opening, and

the shutter extends along and covers a peripheral surface of one end portion of the toner conveyance unit.

[Claim 13]

The toner cartridge according to claim 11, wherein the toner conveyance unit extends to the second opening,

the shutter extends along and covers a peripheral surface of one end portion of the toner conveyance unit, and

the first cover extends along and covers a peripheral surface of the shutter.

[Claim 14]

The toner cartridge according to any one of claim 1 to claim 11, wherein the toner conveyance unit extends to the second opening,

the first cover extends along and covers a peripheral surface of one end portion of the toner conveyance unit, and

the shutter extends along an inner surface of the first cover.

[Claim 15]

The toner cartridge according to any one of claim 1 to claim 14, further

comprising:

a second toner chamber located at one side of the first toner chamber in a second direction, the second toner chamber having a second interior space shorter than the first interior space with respect to the first direction, the second interior space communicating with the first interior space; and

an agitator rotatable about a second axis extending in the first direction, and configured to agitate the toner in the second interior space to allow the toner to be conveyed from the second interior space to the first interior space, by rotating about the second axis,

[Claim 16]

The toner cartridge according to claim 15, wherein the agitator is located in the second interior space.

[Claim 17]

The toner cartridge according to claim 15 or clam 16, wherein the second opening is provided at a position away from the first toner chamber in the first direction.

[Claim 18]

The toner cartridge according to any one of claim 15 to claim 17, wherein the first interior space and the second interior space are aligned in the second direction, the second direction being defined by a connection of the first axis to the second axis.

[Claim 19]

The toner cartridge according to any one of claim 1 to claim 18, wherein the first cover includes a plurality of gear teeth on a peripheral surface of the first cover arranged in a rotating direction of the first cover.

[Claim 20]

The toner cartridge according to claim 19, wherein when the toner cartridge pivots relative to the developing unit, at least one of the gear teeth engages a developing shutter provided in the developing unit, the developing shutter configured to open and close a developing opening provided in the developing unit.

[Claim 21]

The toner cartridge according to claim 19 or claim 20, wherein the first cover

further includes a second protrusion arranged with the plurality of gear teeth in the rotating direction of the first cover, the second protrusion located upstream of the plurality of gear teeth in the rotating direction of the first cover when the casing rotates from the second position to the first position.

[Claim 22]

The toner cartridge according to claim 21, wherein with respect to the rotating direction of the first cover, a distance between the second protrusion and a tooth of the plurality of gear teeth adjacent to the second protrusion is longer than a distance between two adjacent gear teeth of the plurality of gear teeth.