CLAIMS

[Claim 1]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies; and

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged,

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage, and

wherein the one or more friction bodies are configured to move in a direction crossing a flow direction of the air in the air passage to rub against the dust collection bodies.

[Claim 2]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies; and

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged,

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage, and

a pair of the friction bodies are configured to rub against an associated one of the dust collection bodies, with the associated dust collection body sandwiched between the pair of the friction bodies, and at least one of the pair of the friction bodies is grounded.

[Claim 3]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies; and

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged,

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage, and

wherein one of the two of the dust collection bodies that are located opposite to each other with the air passage is a first dust collection body that is positively charged by friction with the one or more friction bodies, and the other dust collection body is a second dust collection body that is negatively charged by friction with the one or more friction bodies.

[Claim 4]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies; and

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged,

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage, and

wherein at least one of the one or more friction bodies includes a first friction material that is negatively charged when the first friction material rubs against one of the two of the dust collection bodies that are located opposite to each other with respect to the air passage, and at least another one of the one or more friction bodies includes a second friction material that is positively charged when the second friction material rubs against the other of the two of the dust collection bodies that are located opposite to each other with respect to the air passage.

[Claim 5]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies; and

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged,

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage, and

wherein the one or more friction bodies include: a first friction material that is negatively charged when the first friction material rubs against one of the two of the dust collection bodies that are located opposite to each other with respect to the air passage; and a second friction material that is positively charged when the second friction material rubs against the other of the two of the dust collection bodies.

[Claim 6]

A dust collecting device comprising:

a plurality of dust collection bodies arranged apart from each other such that an air passage is provided between the dust collection bodies to allow air to pass through the air passage, the dust collection bodies being charged when friction acts on the dust collection bodies;

one or more friction bodies configured to rub against the dust collection bodies to cause the dust collection bodies to be charged; and

a drying unit configured to dry the dust collection bodies before the one or more friction bodies rub against the dust collection bodies.

wherein at least one of two of the dust collection bodies that are located opposite to each other with respect to the air passage includes one or more projections that project toward the air passage.

[Claim 7]

The dust collecting device of any one of claims 1 to 6, wherein the one or more projections are disposed in a flow direction of air in the air passage.

[Claim 8]

The dust collecting device of any one of claims 1 to 7, wherein the one or more projections are flexible.

[Claim 9]

The dust collecting device of any one of claims 2 to 8, wherein the one or more friction bodies are configured to move in a direction crossing a flow direction of the air in the air passage to rub against the dust collection bodies.

[Claim 10]

The dust collecting device of any one of claims 1 and 3 to 9, wherein the one or more friction bodies are grounded.

[Claim 11]

The dust collecting device of claim 10, wherein a pair of the friction bodies are configured to rub against an associated one of the dust collection bodies, with the associated dust collection body sandwiched between the pair of the friction bodies, and at least one of the pair of the friction bodies is grounded.

[Claim 12]

The dust collecting device of any one of claims 1, 2, and 6 to 11, wherein one of the two of the dust collection bodies that are located opposite to each other with respect to the air passage is a first dust collection body that is positively charged by friction with the one or more friction bodies, and the other dust collection body is a second dust collection body that is negatively charged by friction with the one or more friction bodies.

[Claim 13]

The dust collecting device of any one of claims 1, 2, and 6 to 11, wherein at least one of the one or more friction bodies includes a first friction material that is negatively charged when the first friction material rubs against one of the two of the

dust collection bodies that are located opposite to each other with respect to the air passage; and at least another one of the one or more friction bodies includes a second friction material that is positively charged when the second friction material rubs against the other of the two of the dust collection bodies that are located opposite to each other with respect to the air passage.

[Claim 14]

The dust collecting device of any one of claims 1, 2, and 6 to 11, wherein the one or more friction bodies include: a first friction material that is negatively charged when the first friction material rubs against one of the two of the dust collection bodies that are located opposite to each other with respect to the air passage; and a second friction material that is positively charged when the second friction material rubs against the other of the two of the dust collection bodies.

[Claim 15]

The dust collecting device of any one of claims 1 to 5 and 7 to 14, further comprising:

a drying unit configured to dry the dust collection bodies before the one or more friction bodies rub against the dust collection bodies.

[Claim 16]

An air conditioning apparatus comprising:

the dust collecting device of any one of claims 1 to 15; and

a fan configured to produce a flow of air that passes through the air passage.