[CLAIMS]

[Claim 1]

An attachment and detachment device enabling suction and separation of a workpiece, the device comprising:

a machinable ceramic layer;

an adhesion activating layer provided on the machinable ceramic layer;

an electrode layer provided on the adhesion activating layer; and

a dielectric layer provided on the electrode layer, wherein

the machinable ceramic layer comprising a machinable ceramic containing SiO_2,

the adhesion activating layer comprising a second ceramic sprayed film containing an aluminum oxide,

the electrode layer is covered with the adhesion activating layer and the dielectric layer, and

the dielectric layer has a volume resistivity at room temperature of 10^9 to 10^{12} Ω·cm, and

the adhesion activating layer has a volume resistivity at room temperature of 10^9 to 10^{12} Ω·cm or 10^{14} to 10^{16} Ω·cm.

[Claim 2]

The attachment and detachment device according to claim 1, wherein the workpiece has a thickness of 0.001 to 1.5 mm.

[Claim 3]

The attachment and detachment device according to claim

1 or 2, wherein the workpiece is any of a conductor, a semiconductor, or an insulator.

[Claim 4]

The attachment and detachment device according to claim 1 or 2, wherein the workpiece is any of a flake, foil, paper, or a film.

[Claim 5]

The attachment and detachment device according to claim 1, wherein the dielectric layer comprising a first ceramic sprayed film having open pores in the sprayed film,

the electrode layer comprising a metal-sprayed film having open pores in the sprayed film,

and the open pores are sealed with a resin.

[Claim 6]

The attachment and detachment device according to claim 1, wherein the adhesion activating layer having open pores in the second sprayed film,

and the open pores are sealed with a resin.

[Claim 7]

The attachment and detachment device according to claim 1, wherein the electrode layer constitutes a unipolar electrode or a bipolar electrode to which voltages having different polarities are applied.

[Claim 8]

The attachment and detachment device according to claim 1, wherein the electrode layer includes a plurality of

partitioned regions partitioned in an array.