WHAT IS CLAIMED IS:

1. A cutting apparatus for cutting a workpiece, the cutting apparatus comprising:

a chuck table configured to hold the workpiece; and

a cutting unit fitted with a cutting blade including an annular base and a cutting edge that includes abrasive grains and a binder constituted of a material having electrical conductivity and configured to fix the abrasive grains, and is formed along an outer circumferential edge of the base,

the cutting unit including a spindle, a blade mount fitted to a distal end portion of the spindle, and a fixing nut configured to fix the cutting blade to the blade mount, and

the blade mount or the fixing nut being provided with a corrosion layer formed of a material having a higher ionization tendency than the material constituting the binder.

2. A cutting apparatus for cutting a workpiece, the cutting apparatus comprising:

a chuck table configured to hold the workpiece; and

a cutting unit fitted with a cutting blade including an annular base and a cutting edge that includes abrasive grains and a binder constituted of a material having

electrical conductivity and configured to fix the abrasive grains, and is formed along an outer circumferential edge of the base,

the cutting unit including a spindle, a blade mount fitted to a distal end portion of the spindle, and a fixing nut configured to fix the cutting blade to the blade mount, and

the blade mount or the fixing nut being formed of a material having a higher ionization tendency than the material constituting the binder.

3. The cutting apparatus according to claim 1, wherein

the binder and the corrosion layer are formed by a nickel plating layer containing sulfur, and

a content rate of sulfur in the corrosion layer is higher than a content rate of sulfur in the binder.

4. The cutting apparatus according to claim 3, wherein

the content rate of sulfur in the corrosion layer is equal to or more than 1.2 times the content rate of sulfur in the binder.