

PLASMA DISCHARGE APPARATUSABSTRACT OF THE DISCLOSURE

A plasma discharge apparatus formed with a plasma chamber in which discharge is carried out wherein use is made, as the discharge gas sealed in the plasma chamber, of a mixed gas represented by $\text{Ne}_{100-x}\text{Ar}_x\text{A}_y$ (wherein, A is Ar, Kr, and/or Xe, x is 10 to 30 percent by volume, and y is 1 to 10 percent by volume). Note that when Kr and Xe are included as A, it is preferable that the Kr be included in an amount of 1 to 5 percent by volume and the Xe in an amount of 1 to 5 percent by volume.

Figure 1