

ABSTRACT

There are provided an etching gas and an etching method capable of selectively etching an etching object containing silicon as compared with a non-etching object. 5 The etching gas contains fluorobutene represented by a general formula $C_4H_xF_y$, in which x is 1 or more and 7 or less, y is 1 or more and 7 or less, and $x + y$ is 8. The etching gas contains carbonyl fluoride as impurities and 10 the concentration of carbonyl fluoride is 100 ppm by mass or less. The etching method includes an etching step of bringing the etching gas into contact with a member to be etched (12) having an etching object which is an object to be etched by the etching gas and a non-etching object 15 which is not an object to be etched by the etching gas, and selectively etching the etching object as compared with the non-etching object. The etching object contains silicon.

20 Fig. 1