

ABSTRACT

There is provided a technique that includes (a) forming a first film on the substrate by supplying a film-forming agent to the substrate; (b) adding oxygen to the first film by supplying a first oxidizing agent to the substrate and oxidizing a part of the first film; and (c) changing the oxygen-added first film into a second film including an oxide film by supplying a second oxidizing agent to the substrate and oxidizing the oxygen-added first film.

FIG. 4A