CLAIMS

1. A seminconductor texturing composition comprising one or more alkaline compounds, one or more sources of fluoride ions, one or more sources of oxidizing agents and a pH of from 3 to 5, wherein the one or more alkaline compounds are chosen from alkanolamines and quaternary ammonium compounds,

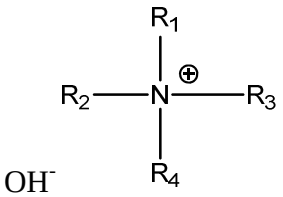
characterized in that the one or more fluoride ions are bifluoride compounds.

2. The composition of claim 1, wherein the alkanolamines have a general formula:

$$R_{3-n}N(C_mH_{2m}(OH))_n$$

wherein R is a hydrogen atom or an alkyl group having 1 to 4 carbons, m is an integer of 2 to 4 and n is an integer of 1 to 3.

3. The composition of claim 1, wherein the quaternary ammonium compounds have a general formula:



wherein R_1 to R_4 are independently hydrogen, (C_1-C_6)alkyl group, (C_1-C_6)hydroxyalkyl group, (C_6-C_{10})aryl group or (C_7-C_{11})alkylaryl group.

4. The composition of claim 1, wherein the one or more bifluoride compounds are chosen from alkali metal bifluorides, ammonium bifluoride, tin bifluoride and antimony bifluoride.

5. The composition of claim 1, wherein the one or more oxidizing agents are chosen from hydrogen peroxide and salts thereof, hypochlorite, persulfates, peroxyorganic acids, permanganate salts, sodium hypochlorite, sodium percarbonate, chlorate, nitric acid and salts thereof, periodate, perbromate, iodate, perchlorate and bromated.

6. The composition of claim 5, wherein the bifluorides are chosen from alkali metal bifluorides, ammonium bifluoride, tin bifluoride and antimony bifluoride.

7. The composition of claim 6, wherein the bifluorides are in amounts of 1% to 40%.

8. The composition of claim 7, wherein the bifluorides are in amounts of 5% to 15%.