

Title (en)
METHOD OF NITRIDING SILICON

Title (de)
VERFAHREN ZUR NITRIDIERUNG VON SILIZIUM

Title (fr)
PROCEDE DE NITRURATION DU SILICIUM

Publication
EP 0782542 A1 19970709 (EN)

Application
EP 95925485 A 19950705

Priority
• US 9508418 W 19950705
• US 27061394 A 19940705

Abstract (en)
[origin: WO9601229A1] A process for nitriding materials containing silicon to form a silicon nitride material predominantly in the alpha phase is disclosed which includes nitriding the silicon-containing material by (a) heating the silicon-containing material in an atmosphere containing at least hydrogen in the temperature range of about 0 DEG C to about 800 DEG C and (b) thereafter, nitriding the silicon-containing material by subjecting the silicon-containing material to a nitriding atmosphere containing at least nitrogen gas in the temperature range of from about 1000 DEG C to about 1450 DEG C to effect nitriding.

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