

# Technology Development Group

## Available Technologies

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### **Vsat Structure for Nonvolatile Memory Device**

Tech ID: 22317 / UC Case 2009-453-0

#### **SUMMARY**

Provided are a semiconductor device and a method of fabricating the same. At least one mold structure defining at least one first opening is formed on a substrate, wherein the mold structure comprises first mold patterns and second mold patterns that are sequentially and alternatingly stacked. Thereafter, side surfaces of the first mold patterns are selectively etched to form undercut regions between the second mold patterns. Then, a semiconductor layer is formed to cover a surface of the mold structure where the undercut regions are formed, and gate patterns are formed, which fill respective undercut regions where the semiconductor layer is formed.

**BACKGROUND** 

**INNOVATION** 

**APPLICATIONS** 

**ADVANTAGES** 

#### STATE OF DEVELOPMENT

#### **PATENT STATUS**

Country	Туре	Number	Dated	Case
United States Of America	Issued Patent	8,664,707	03/04/2014	2009-453
United States Of America	Issued Patent	8,164,134	04/24/2012	2009-453

#### **CONTACT**

**UCLA Technology Development** 

ncd@tdg.ucla.edu tel: 310.794.0558.



#### **INVENTORS**

Wang, Kang L.

#### OTHER INFORMATION

### **CATEGORIZED AS**

- **▶** Semiconductors
  - ▶ Design and Fabrication

**RELATED CASES** 

2009-453-0

#### ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Vertical-Stacked-Array-Transistor (VSAT) for Nonvolatile Memory Devices
- Magnetic Memory Bits with Perpendicular Magnetization Switched By Current-Induced Spin-Orbit Torques
- ► A Read-Disturbance-Free Nonvolatile Content Adressable Memory
- ▶ A Self-Organized Critical CMOS Circuit for Computation and Information Processing
- ► Anti-Ferromagnetic Magneto-Electric Spin-Orbit Read Logic

## Gateway to Innovation, Research and Entrepreneurship

**UCLA Technology Development Group** 

10889 Wilshire Blvd., Suite 920,Los Angeles,CA 90095

https://tdg.ucla.edu

Tel: 310.794.0558 | Fax: 310.794.0638 | ncd@tdg.ucla.edu

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