(KR) (19) (12) **(A)** (11) (51) 。 Int. Cl.⁷ 10-2005-0002424 H01L 27/115 (43) 2005 01 07 (21)10-2003-0043802 (22)2003 06 30 (71)136-1 (72)201 - 1205 (74) (54)

, , , , , ,

·

8c

,

, c 1 Y2-Y2 .

11: 12:

10-2005-0002424

13: 1 14: 15: 2 16: 17: 3 18: 19: 100: 100S: (under cut) (bridge) (stack gate) (residue) (fence)가 가 가 가 2 2 3 2 1 2 10 ~ 50 % 20 ~ 70 100 ~ 250 %

- 2 -

```
2
                     1
                                                 2
           가
                                       가
  1
                                      2
                                              8
                                              X - X
                                              1 Y2-Y2
   Y1-Y1
                                              (SA-STI)
                                                                       (11)
      2a, 2b
                   2c
         (14)
                                                                (12)
                                                                      (14) 가
                                                (13)
        (13)
                                                                            (15)
                                                                        (16)
                   (15)
                                                   (16)
      3
                  (17)
                                  (18)
                                                                    (18)
                                                                                       (19)
                                  (19)
                                                                          (strip)
      3a, 3b
                                                  (19)
                                                                                      (18)
                                (over etch)
                                                                               (17)
       (main etch)
                                  (17)
                                                                                      (17)
                                                                   (16)
                (17)
                                2
                                            (15)
  3
           4b
                                                 (19)
3
           (17)
17)
                                                       (17)
                                                                       (etch damage)
                     3
                                                 10 ~ 50 %
                     (17)
                                                 (15)
  1, 5a,
            5b
                   5c
                                  3
                                             (17) 2
     (100)
                  (100)
                                                                 (LPCVD)
                                                                                 100
                 20 ~ 70
                                                             (100)
                                                                                        3
      6a,
            6b
                   6c
                                                                         (100S)
                                    (17
                                         18)
                                              100 ~ 250 %
                                    (100)
                                                                                       (10
                      (16) ONO(upper oxide/middle nitride/lower oxide)
0)
                      (16)
                                                  (100S)가
                                                                                  (19)
     7a,
           7b
                  7c
                                                              (17)
                                                             (17)
                                                 3
                                             (16)
                                                                       (17)
     (100S)가
              (17)
  1, 8a,
           8b
                   8c
                                          (19)
(16),
      2
                                       (13)
                                                               2
                  (15)
                                                                          (15)
```

가

, . , 1 2 (13 15) 가

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(57)

1.1;

1 2 ;

2 ; 1 2 ;

2 ;

1

2.1 ,

1 1 2

3. 2 ,

1 .

4.1 ,

2 - .

5.1 ,

6.1 ,

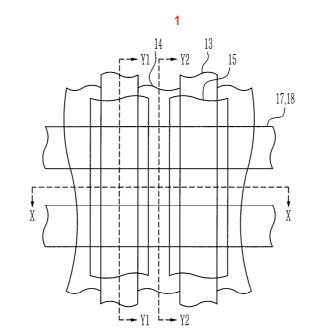
20 ~ 70 ,

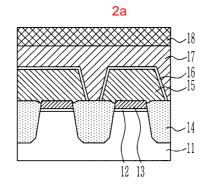
7.

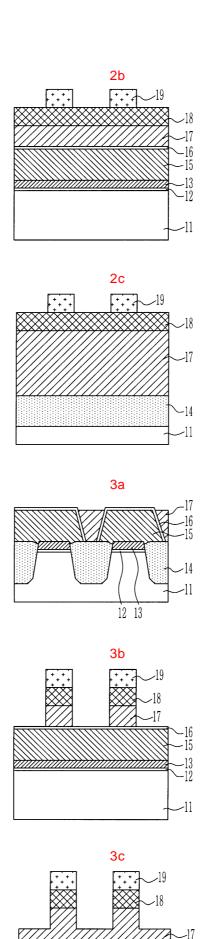
6 ,

100 ~ 250 %

8. 1 ,







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