Title: EXTENDED DRAIN MOS TRANSISTOR

Abstract: An integrated circuit (1000) is formed on an SOI substrate containing an extended drain MOS transistor with a through-substrate diode (1024) in a drain or body region coupled to the handle wafer through a p-n junction (1016), that is electrically isolated from the drain or body region.

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— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H))
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(H))

Published:
— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))


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### A. CLASSIFICATION OF SUBJECT MATTER

**HOIL 29/78(2006.01), HOIL 21/336(2006.01)**

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

HOIL 29/78; HOIL 21/84; HOIL 27/108; HOIL 29/94; HOIL 29/06; HOIL 21/762; HOIL 21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: extended, drain, and MOS

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>A</td>
<td>US 6352882 B1 (ASSADERAGHI ; FAIRBANKS et al.) 05 March 2002</td>
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<td>US 2010-0163994 A1 (KURZ ANDREAS et al.) 01 July 2010</td>
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Date of the actual completion of the international search

18 MAY 2012 (18.05.2012)

Date of mailing of the international search report

21 MAY 2012 (21.05.2012)

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