United States Patent [19]

Konishi

[56]

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[45] Date of Patent:

Feb. 12, 1985

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[75] Inventor: Satoshi Konishi, Tokyo, Japan

[73] Assignee: Tokyo Shibaura Denki Kabushiki

Kaisha, Japan

[21] Appl. No.: 446,724

[22] Filed: Dec. 3, 1982

[30] Foreign Application Priority Data

[51] Int C13	110217 A /04, 110217 5 /	'n.
Jan. 18, 1982 [JP]	Japan 57-56	580
Dec. 15, 1981 [JP]	Japan 56-2018	33.

307/469, 246, 574–576, 579, 581, 584, 585, 267, 268, 591, 594, 601, 603, 605, 263

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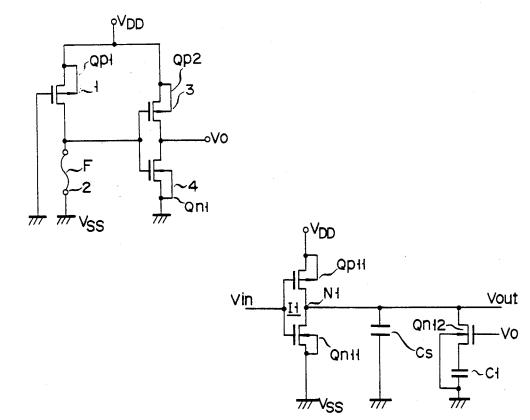
Kokkonen et al., "Redundancy Techniques for Fast Static RAMs"; ISSCC 81/Wednesday, Feb. 18, 1981, IEEE International Solid-State Conference, pp. 80-81.

Primary Examiner—Stanley D. Miller Assistant Examiner—David R. Hudspeth Attorney, Agent, or Firm—Finnegan, Henderson, Farabow, Garrett & Dunner

57] ABSTRACT

A MOS type semiconductor integrated circuit comprising a C-MOS inverter including P- and N-channel MOS transistors connected in series between V_{DD} and V_{SS} power supply terminals, the gates of the MOS transistors being supplied with an input signal; a variable capacitor connected between a node at which the transistors are interconnected and a reference voltage; and a voltage generator for producing an output voltage to the variable capacitor, the voltage generator being capable of irreversibly changing the level of the output voltage, thereby changing a capacitance of the variable capacitor.

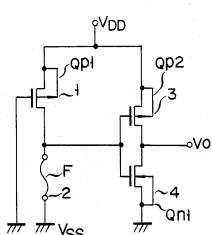
23 Claims, 89 Drawing Figures



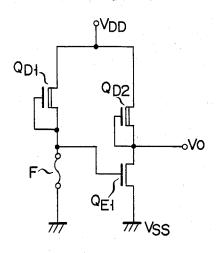


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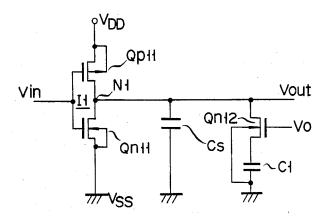
FIG. 1



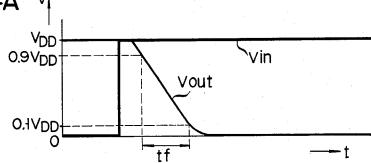
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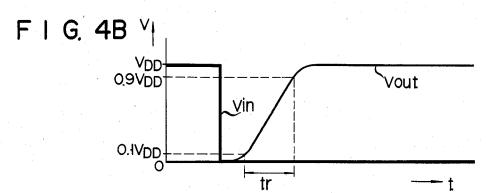


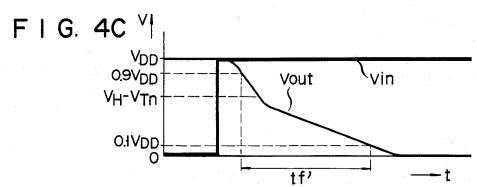
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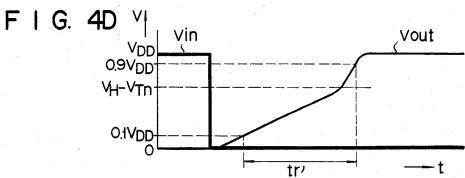


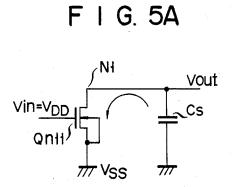
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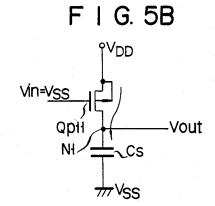




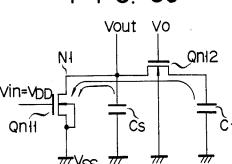




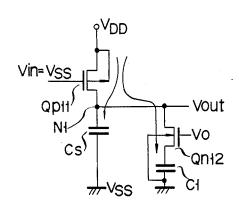




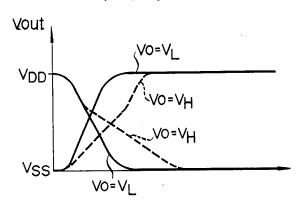




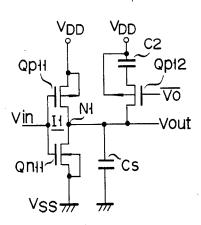
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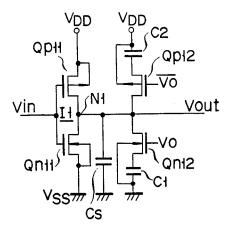
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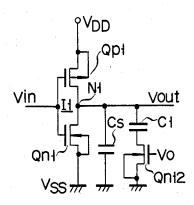
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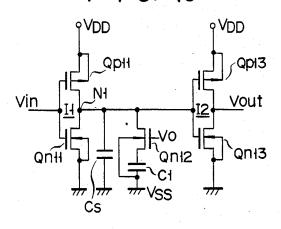
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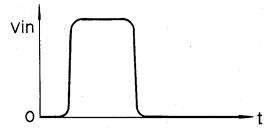


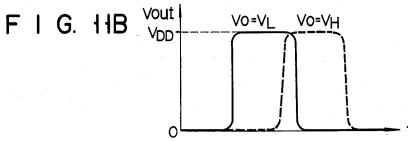


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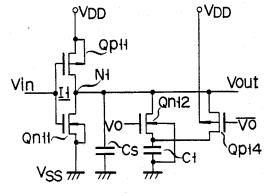


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