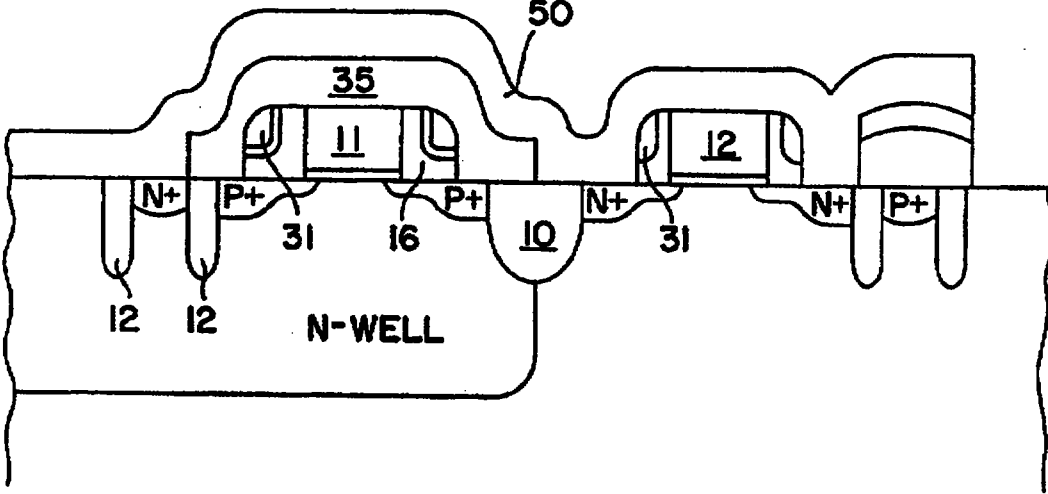


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(21) International Application Number: PCT/US96/16002 (22) International Filing Date: 3 October 1996 (03.10.96) (30) Priority Data: 08/538,846 4 October 1995 (04.10.95) US (71) Applicant (for all designated States except US): INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): THOMPSON, Scott, E. [US/US]; 19635 N.W. Rock Creek Way, Portland, OR 97229 (US). JAN, Chia-Hong [US/US]; 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124 (US). PACKAN, Paul, A. [CA/US]; 15025 S.W. Gibraltar Court, Beaverton, OR 97007 (US). GHANI, Tahir [US/US]; 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124 (US). ANDIDEH, Ebrahim [US/US]; 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124 (US). MOGHADAM, Farhad, K. [US/US]; 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124 (US). BOHR, Mark, T. [US/US]; 19475 S.W. Suncrest, Aloha, OR 97007 (US).		(74) Agents: TAYLOR, Edwin, H. et al.; Blakely, Sokoloff, Taylor & Zafman, Seventh floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025-1026 (US). (81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: FORMATION OF SOURCE/DRAIN FROM DOPED GLASS		
		
(57) Abstract A process for fabricating a source and drain region which includes a more lightly doped source and drain tip region immediately adjacent to the gate and a more heavily doped main portion of the source and drain region spaced apart from the gate. A first layer (16) of glass (2 % BSG) is used to provide the source of doping for the tip region and a second layer (35) of glass (6 % BSG) is used to provide the dopant for the more heavily doped major portion of source and drain regions. Spacers (31) are formed between the glass layers to define the tip region from the main portion of the source and drain regions.		