

Title (en)
DEVICE FOR GENERATING INTERMEDIATE VOLTAGES

Title (de)
VORRICHTUNG ZUR ERZEUGUNG VON ZWISCHENSpannungen

Title (fr)
DISPOSITIF DE GENERATION DE TENSIONS INTERMEDIAIRES

Publication
EP 0604485 B1 19970813 (DE)

Application
EP 92919019 A 19920907

Priority
• DE 4131170 A 19910919
• EP 9202061 W 19920907

Abstract (en)
[origin: DE4131170A1] The proposal is for a device for generating intermediate voltages and a preferred use of the device of the invention. The device of the invention makes it possible to emit, with low dissipation losses and good dynamic stability over a wide range of externally applied voltages (V_{pos} , V_{neg}), intermediate voltages the values of which lie between those of the externally applied voltages. In a first version, the device of the invention emits an intermediate voltage with a value lying between those of externally applied voltages V_{pos} , V_{neg} , and which is generated by means of a current through a Zener block powered by a controllable current source. The current source is controlled dependently upon comparison values obtained from a comparison between a reference voltage and a falling voltage at a component connected in series with the Zener block and the current source. In the preferred use of the device of the invention, the voltages generated are preferably applied to an integrated circuit, or more precisely to individual diffusion regions, thus improving the dielectric strength of the integrated circuit.

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IPC 8 full level
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