



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

Reading circuit for POSFET tactile sensors devices

INVENTORS

Stefano Caviglia, Chiara Bartolozzi, Maurizio Valle

DESCRIPTION

The invention relates to a reading circuit of an electric signal produced by a POSFET device comprising a transconductance amplifier connected at its inverting input to the output of the POSFET device. Said transconductance amplifier being arranged to receive a signal coming from the POSFET device representative of a force or pressure applied on it, and produce in output at least one current signal representative of said force or pressure. The device is applied to neurons being arranged to receive said current signal and to produce as output a pulse train having a frequency proportional at least one current signal produced by the transconductance amplifier.

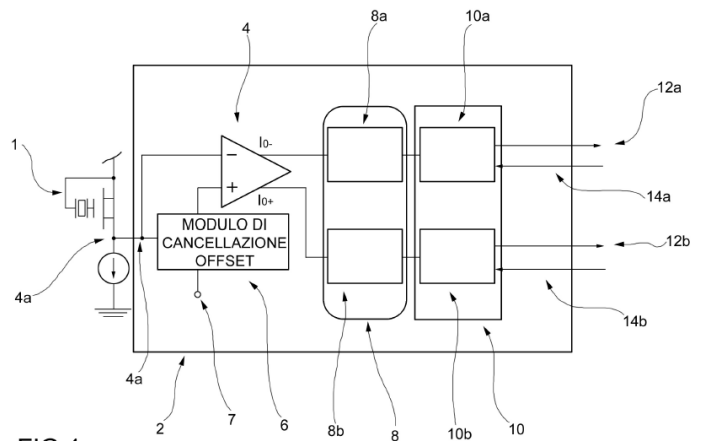


FIG.1

APPLICATIONS

Tactile/pressure sensors

KEYWORDS

Event-driven tactile sensor, asynchronous readout, POSFET, tactile sensor

BIBLIOGRAPHIC DATA

Circuito di lettura per dispositivi sensori tattili di tipo POSFET

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Applicants Fondazione Istituto Italiano di Tecnologia, Università degli studi di Genova

CONTACTS

Technology Transfer Office Lorenzo Rossi +39 010 71781 489

lorenzo.rossi@iit.it