

Technology & Industry Alliances Available Technologies Contact Us **Request Information** Permalink **High Frequency Operational Amplifier** CONTACT Pasquale S. Ferrari Tech ID: 21433 / UC Case 2009-257-0 ferrari@tia.ucsb.edu tel: . **BRIEF DESCRIPTION** A high frequency operational amplifier that exhibits precision gain at high frequencies and has record high bandwidth **INVENTORS** and linearity at a given operating power. ► Griffith, Zachary M. Rodwell, Mark J. BACKGROUND Urteaga, Miguel E. Since conventional operational amplifiers (op-amps) are unstable at high gains at high frequencies and may require complementary technology for implementation, there is a need for an op-amp that surmounts both of these obstacles OTHER INFORMATION in order to increase performance and decrease production costs. **KEYWORDS** Operational amplifier, DESCRIPTION indtelecom Researchers at the University of California, Santa Barbara have developed a high frequency operational amplifier. It exhibits precision gain at high frequencies and has record high bandwidth and linearity at a given operating power. **CATEGORIZED AS** Because it doesn't require complementary devices, production costs are decreased, and the op-amp tolerates a wide Engineering Communications range of external input and output impedances. It is applicable in a wide range of both analog and digital electronics. Other **ADVANTAGES RELATED CASES** 2009-257-0 Precision gain at high frequencies

- Record high bandwidth at a given operating power
- Record high linearity at a given operating power
- Decreased production costs due to a design lacking the need for complementary technology
- ▶ High tolerances of external input and output impedances

APPLICATIONS

- Operational Amplifiers
- Analog and Digital Electronics

This technology is available for licensing. U.S. Patent No. 7,898,333.

PATENT STATUS

Country	Туре	Number	Dated	Case

03/01/2011

2009-257

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Issued Patent

United States Of America

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