

Title (en)

Precision switched current source.

Title (de)

Präzisionsgeschaltete Stromquelle.

Title (fr)

Source de courant de précision à commutation.

Publication

EP 0443238 A2 19910828 (EN)

Application

EP 90309885 A 19900910

Priority

US 48231990 A 19900220

Abstract (en)

A precision switched current source uses two transistors, preferably bipolar devices, with one transistor (Q1) establishing a reference current and the second transistor (Q2) connected to provide an output current which proportionately mirrors the reference current. A voltage controlled switch, preferably a field effect transistor (FET) (T1), is connected between the bases of the two bipolar transistors (Q1, Q2), and is switched to open and close that connection. The mirrored output current is thus switched on and off, under the control of the FET switch (T1). A second switch (T2) may be provided and operated inverse to the first FET switch (T1) to discharge the base of the output bipolar transistor (Q2) when that transistor is off.

<IMAGE>

IPC 1-7

G05F 3/20; **G05F 3/26**

IPC 8 full level

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CPC (source: EP)

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