

Title (en)
Buck converter

Title (de)
Abwärtswandler

Title (fr)
Convertisseur abaisseur

Publication
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Application
EP 02027400 A 20021209

Priority
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Abstract (en)
[origin: EP1429222A1] Buck converter for generating a regulated DC output voltage (Vout) from an unregulated DC input voltage (Vin) comprising: switch means (S1) for switching said unregulated DC input voltage (Vin) to provide a pulse train; output filtering means (Ls,Cs) for low pass filtering of said pulse train; a regenerative loop providing regenerative feed back of said pulse train through a switching control circuit (SC) to a switching control input of said switch means (S1). <??>To obtain ripple reduction in the output signal of the buck converter in accordance with the invention in particular when using low ESR ceramic output capacitors, said regenerative loop includes a loop filter circuit (Lx, Cx or Rx, Cx) coupled between an output of said switch means (S1) and said switching control circuit (SC) and provides a loop time constant substantially smaller than the time constant of said output filtering means (Ls, Cs). <IMAGE>

IPC 8 full level
G05F 1/575 (2006.01)

CPC (source: EP)
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Cited by
CN108738350A; RU2510602C2; DE102006002712A1; DE102006002712B4; DE102006015339A1; DE102006015339B4; US8022749B2; US9893618B2; US8569969B2; US7902805B2; WO2010041183A3

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