

Title (en)

ELECTRONIC MUSICAL INSTRUMENT IN WHICH MUSICAL TONES ARE GENERATED ON THE BASIS OF PITCHES EXTRACTED FROM AN INPUT WAVEFORM SIGNAL

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EP 0264955 A3 19890830 (EN)

Application

EP 87115594 A 19871023

Priority

- JP 471487 A 19870112
- JP 5038187 A 19870306
- JP 25348786 A 19861024
- JP 28214286 A 19861128
- JP 28329286 A 19861128
- JP 28598586 A 19861202
- JP 28674586 A 19861203

Abstract (en)

[origin: EP0264955A2] An electronic musical instrument extracts a pitch from an input waveform signal by a pitch extracting circuit (P1 SIMILAR P6), and directs a sound source circuit (9) to generate a musical tone at the pitch based on the extracted pitch. The sound source circuit (9) electronically generates musical tones at the pitches according to the performance. The pitch extracting circuit (P1 SIMILAR P6) obtains a fundamental period of the input waveform signal by detecting the time interval (t1) between these first two zero-cross points after two positive peak points of the input waveform signal are detected, by detecting a time interval (t2) between first two zero-cross points after two negative peak points of the input signal waveform are detected, or by detecting both the time intervals (t1, t2).

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G10H 3/00

IPC 8 full level

G10H 3/00 (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] US 4627323 A 19861209 - GOLD CALMAN [US]
- [A] GB 2138988 A 19841031 - CASIO COMPUTER CO LTD

Cited by

CN108333506A; CN111030412A; EP0318675A1; US5018427A

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EP 0264955 A2 19880427; **EP 0264955 A3 19890830**; **EP 0264955 B1 19930317**; DE 3752185 D1 19980604; DE 3752185 T2 19980827; DE 3784830 D1 19930422; DE 3784830 T2 19931014; EP 0493374 A2 19920701; EP 0493374 A3 19921119; EP 0493374 B1 19980429; HK 1005348 A1 19981231

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