Title (en)
Programmable tone generator.

Title (de)
Programmierbarer Tongenerator.

Title (fr)
Générateur de son programmable.

Publication
EP 0042019 A1 19811223 (EN)

Application
EP 80301980 A 19800612

Priority
EP 80301980 A 19800612

Abstract (en)
A programmable tone generator for an electronic musical instrument generates a pulse train output (F out) in which in each cycle the starting time and duration of each pulse is controlled, thereby to determine the harmonic content of the electronic waves that are converted to audio sound. A binary counter (12) serves as a time base for encoding each period of a tone signal waveform into plural outputs (14) in the form of a binary code. A plurality of programmable tone generation circuits (16) are coupled with selected counter outputs (14) to comprise plural tone signal branchs (16), each providing a tone signal at a selected fundamental frequency and having selected harmonic content. Each tone signal branch (16) includes a programmable variable code generator (26) and determines the initial content of the output waveform, subsequently either maintaining or changing the fundamental frequency and harmonic content thereof.

IPC 1-7
G10H 7/00; G10H 5/06; G10H 1/06

IPC 8 full level
G10H 1/06 (2006.01); G10H 7/00 (2006.01)

CPC (source: EP)
G10H 1/06 (2013.01); G10H 7/00 (2013.01)

Citation (search report)
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GB2192300A

Designated contracting state (EPC)
DE GB IT NL

DOCDB simple family (publication)
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DOCDB simple family (application)
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