

Title (en)  
Electronic musical instrument.

Title (de)  
Elektronisches Musikinstrument.

Title (fr)  
Instrument de musique électronique.

Publication  
**EP 0116678 A1 19840829 (DE)**

Application  
**EP 83106425 A 19830701**

Priority  
DE 3301354 A 19830118

Abstract (en)  
[origin: US4520706A] The touch dynamics of the operation of keys of an electronic musical instrument are determined through the use of pressure sensitive transducers associated with the keys, the transducers providing signals which are analyzed to determine their variation in magnitude as a function of time. Additionally, after a preselected time period, if a key remains operated and the pressure exerted thereon is varied, the output voltage of the key associated transducer will be further analyzed to determine if the player is calling for the reproduction of a secondary effect.

Abstract (de)  
An den Ausgangssignalen von Tastenkontakten, deren Höhe abhängig von dem Anschlagdruck ist, werden Informationen sowohl hinsichtlich der Anschlagdynamik als auch hinsichtlich Sekundäreffekten beim Halten der Taste gewonnen. Die Signale werden nacheinander in entsprechend unterschiedlicher Weise verarbeitet.

IPC 1-7  
**G10H 1/055**

IPC 8 full level  
**G10H 1/053** (2006.01); **G10H 1/055** (2006.01)

CPC (source: EP US)  
**G10H 1/0558** (2013.01 - EP US); **Y10S 84/07** (2013.01 - EP US)

Citation (search report)

- [X] DE 2326095 A1 19741212 - ITT IND GMBH DEUTSCHE
- [X] DE 2707640 A1 19780824 - KNUETTEL FRANZ HEINRICH
- [Y] US 4195545 A 19800401 - NISHIMOTO TETSUO [JP]
- [A] US 3927593 A 19751223 - KAWAMURA KIYOSHI
- [A] US 3960044 A 19760601 - NAGAI YOHEI, et al

Cited by  
US4936571A; US8283367B2; US8546608B2; US8541590B2

Designated contracting state (EPC)  
FR GB IT NL

DOCDB simple family (publication)  
**DE 3301354 A1 19840719**; EP 0116678 A1 19840829; EP 0116678 B1 19870527; JP S59142599 A 19840815; US 4520706 A 19850604; US 4651611 A 19870324

DOCDB simple family (application)  
**DE 3301354 A 19830118**; EP 83106425 A 19830701; JP 699484 A 19840118; US 56957984 A 19840110; US 67111584 A 19841113