

(54) **AUTOMATIC MUSIC GENERATING METHOD AND DEVICE**

(75) Inventor: **René Louis Baron**, Saint Hilaire les Andrésis (FR)

(73) Assignee: **Medal Sarl**, Saint Hilaire les Andresis (FR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/787,979**

(22) PCT Filed: **Sep. 23, 1999**

(86) PCT No.: **PCT/FR99/02262**

§ 371 (c)(1),
(2), (4) Date: **Mar. 23, 2001**

(87) PCT Pub. No.: **WO00/17850**

PCT Pub. Date: **Mar. 30, 2000**

(30) **Foreign Application Priority Data**

Sep. 24, 1998 (FR) 98 12460
Jun. 23, 1999 (FR) 99 08278

(51) **Int. Cl.**⁷ **A63H 5/00**; G04B 13/00;
G10H 7/00

(52) **U.S. Cl.** **84/609**; 84/610; 84/613;
84/649; 84/650

(58) **Field of Search** 84/600-602, 609-613,
84/615, 622-625, 634, 637, 649-653, 659-660,
666-669

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,982,643 A * 1/1991 Minamitaka 706/902

5,375,501 A	12/1994	Okuda	84/611
5,525,749 A	6/1996	Aoki	84/609
5,990,407 A *	11/1999	Gannon	84/604
6,031,171 A *	2/2000	Tohgi et al.	84/470 R
6,124,543 A *	9/2000	Aoki	84/609
6,188,010 B1 *	2/2001	Iwamura	84/477 R
6,326,538 B1 *	12/2001	Kay	84/635

FOREIGN PATENT DOCUMENTS

EP 288 800 A2 A3 11/1988 G10H/1/00

OTHER PUBLICATIONS

Yap Siong Chua, Composition Based on Pentatonic Scales: A Computer Aided Approach, IEEE, Los Alamitos, CA, USA, Jul. 1991, pp. 67-71.

* cited by examiner

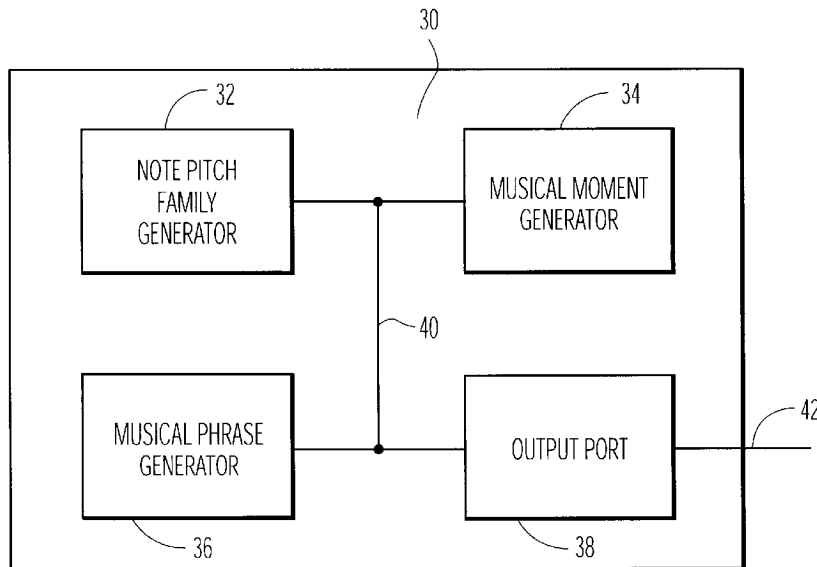
Primary Examiner—Marlon T. Fletcher

(74) *Attorney, Agent, or Firm*—Joseph S. Tripoli; Paul P. Kiel

(57) **ABSTRACT**

The invention concerns a music generating method which consists in: an operation defining musical moments during which at least four notes are capable of being played, for example, bars or half-bars; an operation defining two families of note pitches, for each musical moment, the second family of note pitches having at least one note pitch which does not belong to the first family; an operation forming at least a succession of notes having at least two notes, each succession of notes being called a musical phrase, succession wherein, for each moment, each note whereof the pitch belongs exclusively to the second family is exclusively surrounded with notes of the first family; and an operation producing the output of a signal representing each pitch of each succession of notes.

41 Claims, 23 Drawing Sheets



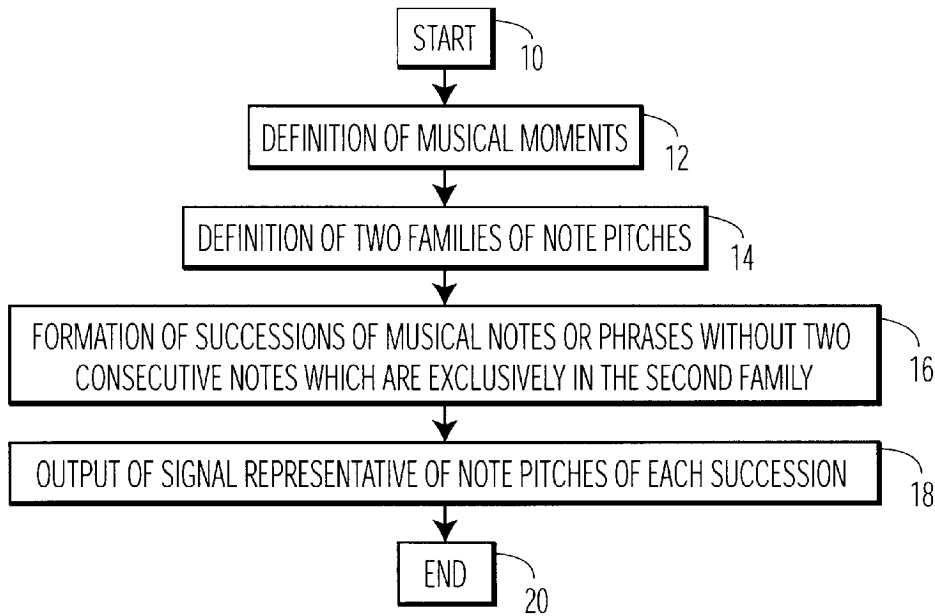


FIG. 1

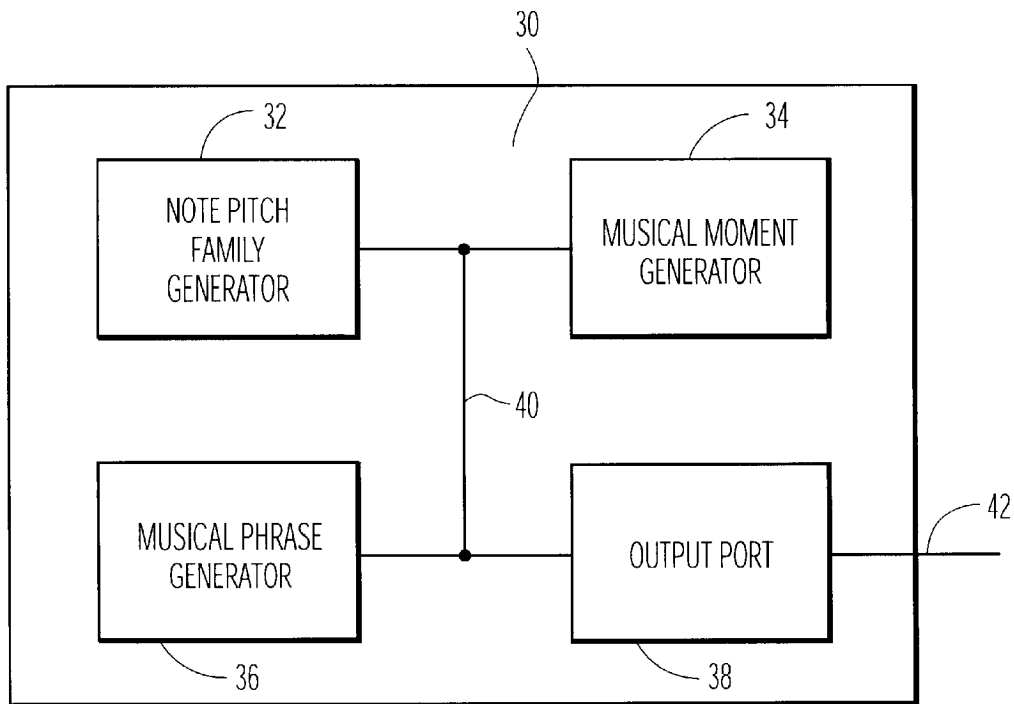


FIG. 2

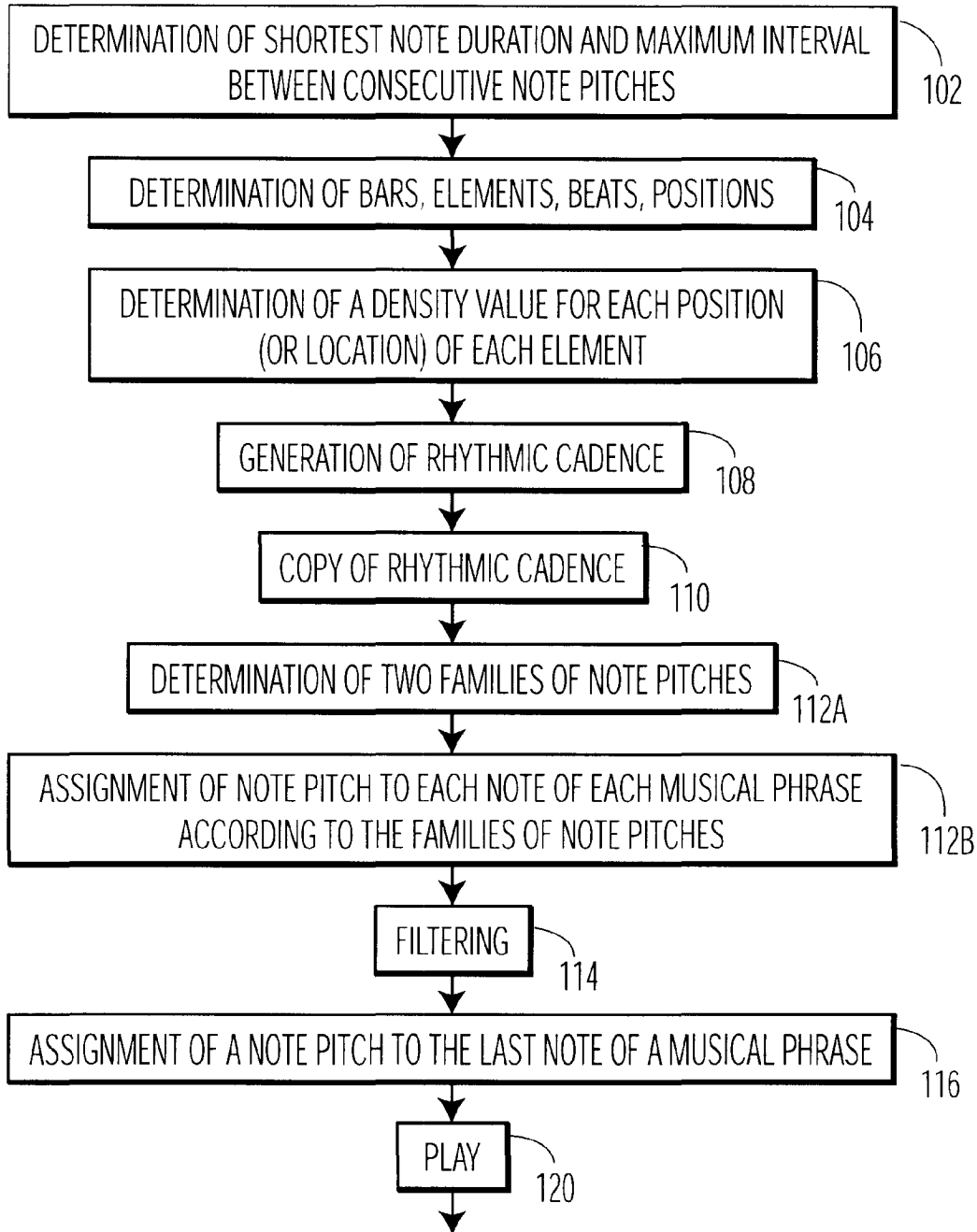


FIG. 3

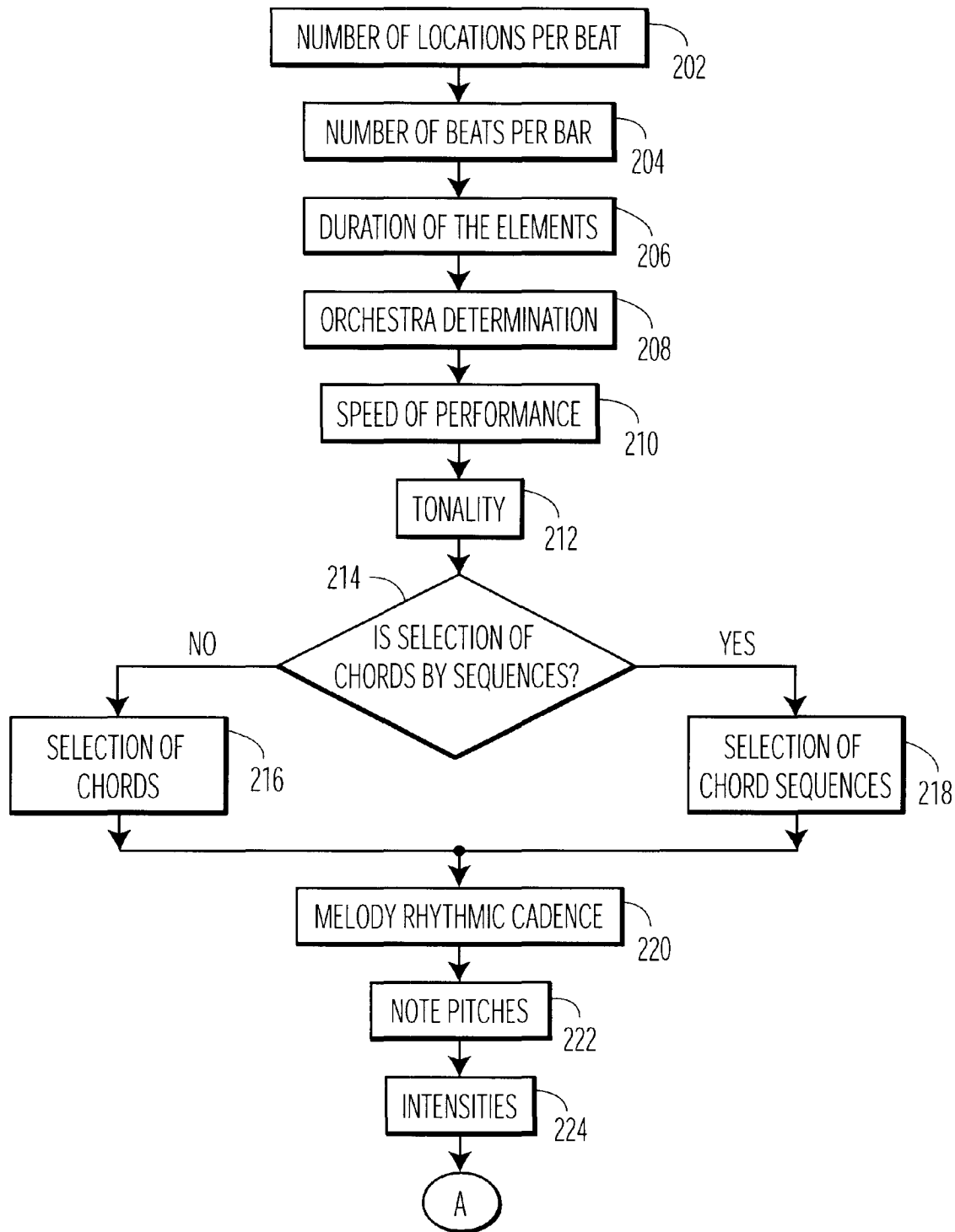


FIG. 4A

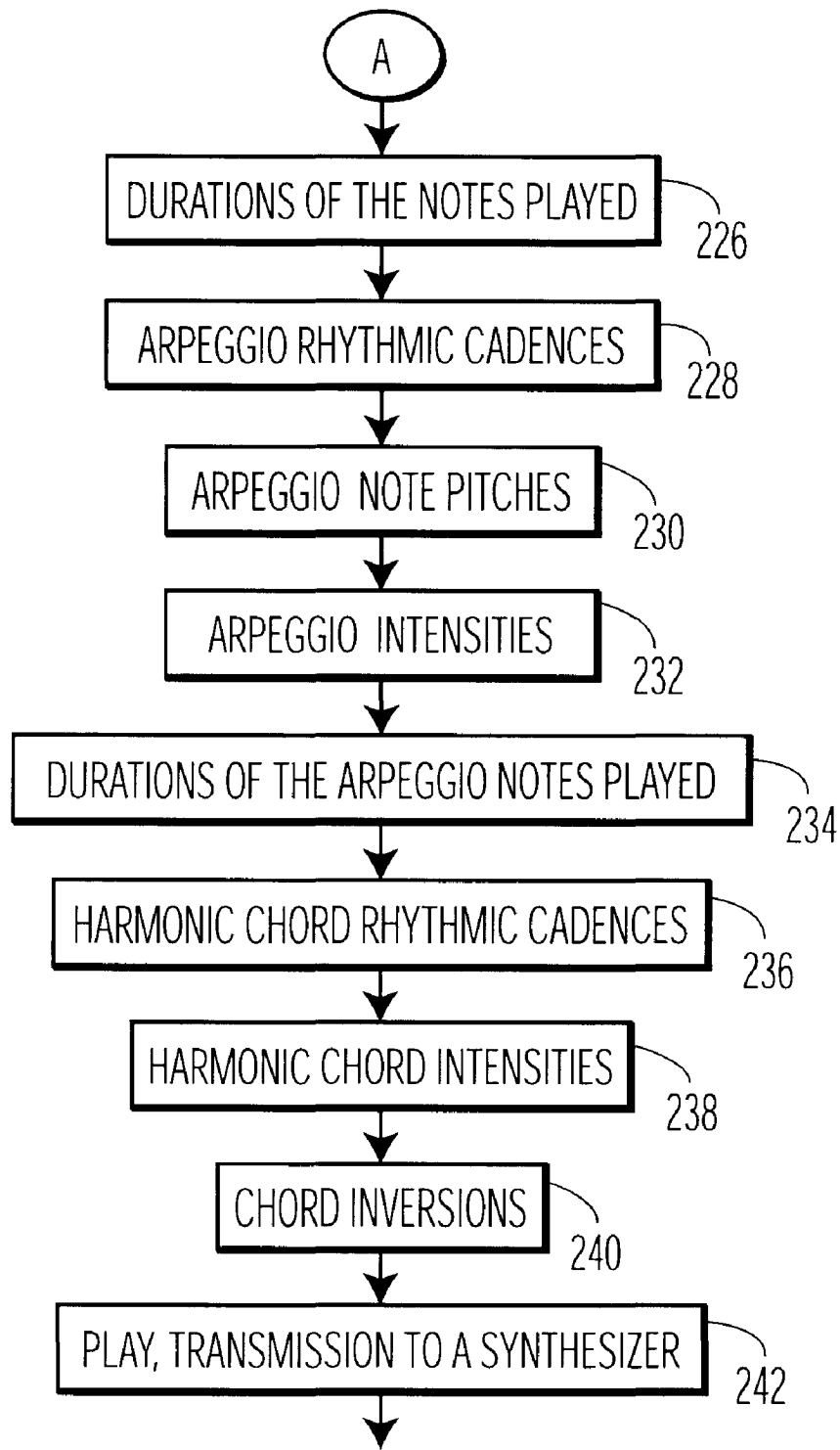


FIG. 4B

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.