



(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0060911 A1**  
**Chan et al.** (43) **Pub. Date: Mar. 27, 2003**

(54) **LOW POWER DIGITAL AUDIO  
DECODING/PLAYING SYSTEM FOR  
COMPUTING DEVICES**

(60) Provisional application No. 60/250,899, filed on Dec. 1, 2000. Provisional application No. 60/265,466, filed on Jan. 30, 2001.

(76) Inventors: **Reginia Chan**, Los Altos, CA (US);  
**Sheau Chuen Her**, Milpitas, CA (US);  
**James Lam**, Fremont, CA (US);  
**William Densham**, Los Gatos, CA  
(US); **Sterling Du**, Palo Alto, CA (US)

**Publication Classification**

(51) **Int. Cl.<sup>7</sup>** ..... **G06F 17/00**; G10L 19/00;  
G10L 21/00

Correspondence Address:  
**Grossman, Tucker, Perreault & Pflieger, PLLC**  
**55 South Commercial Street**  
**Manchester, NH 03101 (US)**

(52) **U.S. Cl.** ..... **700/94**; 704/500

(21) Appl. No.: **10/208,728**

(57) **ABSTRACT**

(22) Filed: **Jul. 30, 2002**

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 09/969,060, filed on Oct. 2, 2001, which is a continuation-in-part of application No. 09/921,171, filed on Aug. 2, 2001.

A low-power digital audio decoding and playing system and method for computing devices provides a low-cost, low power-consumption, long-battery-life audio playing and decoding system, which may be used to play compressed audio files of various formats. A software only solution for such a system is provided

