Exhibit C

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US007804435B2

(12) United States Patent

Sadowski et al.

(54) VIDEO DECODER WITH REDUCED POWER CONSUMPTION AND METHOD THEREOF

- (75) Inventors: Greg Sadowski, Cambridge, MA (US); George Jacobs, Sterling, MA (US); Paul Chow, Richmond Hill (CA)
- (73) Assignee: ATI Technologies ULC, Markham, Ontario (CA)
- (*) 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.: 11/469,335
- (22) Filed: Aug. 31, 2006

(65) **Prior Publication Data**

US 2008/0055119 A1 Mar. 6, 2008

- (51) Int. Cl. *H03M 1/12* (2006.01)

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(10) Patent No.: US 7,804,435 B2

(45) **Date of Patent:** Sep. 28, 2010

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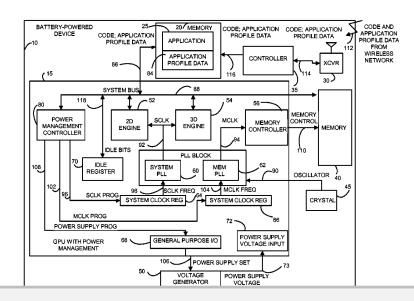
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Primary Examiner—Brian Young (74) Attorney, Agent, or Firm—Vedder Price P.C.

(57) **ABSTRACT**

A video decoder (10) with reduced power consumption includes a power management controller (45) that is operative to select one of a plurality of different power consumption states for a video decoder (10), and, in response to the determination, vary power consumption of at least one operational portion of the video decoder (10). In addition, in one example, a method (200) for reducing power consumption for a video decoder (10) includes determining input stream encoding description data (34) to select one of a plurality of different power consumption states for a video decoder (10) and, in response to the determination, varying power consumption of at least one operational portion of the video decoder (10).

26 Claims, 12 Drawing Sheets



Case 6:22-cv-00466-ADA-DTG Document 52-2 Filed 12/21/22 Page 3 of 25

US 7,804,435 B2

Page 2

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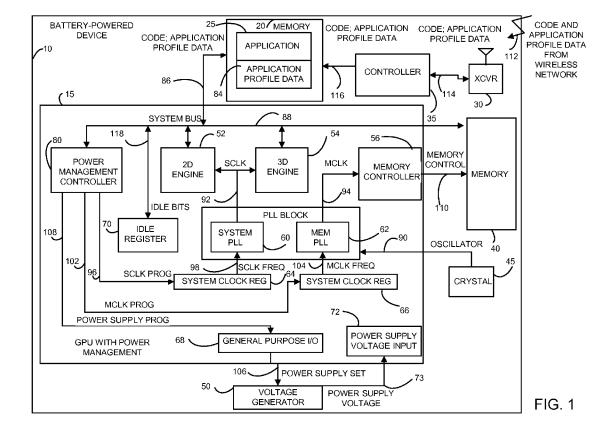
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U.S. Patent	Sep. 28, 2010	Sheet 2 of 12	US 7,804,435 B2

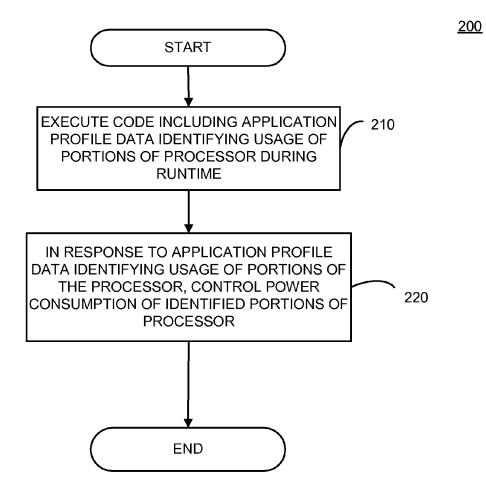


FIG. 2

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