



(12) **United States Patent**
Price et al.

(10) **Patent No.:** **US 8,185,278 B2**
(45) **Date of Patent:** **May 22, 2012**

(54) **METHODS AND SYSTEMS FOR CONTROLLING THE ENGINE SPEED OF AGRICULTURAL VEHICLES**

3,993,175 A 11/1976 Beveridge
5,553,453 A 9/1996 Coutant et al.
7,478,693 B1 * 1/2009 Curtis 180/165

(75) Inventors: **Trail Price**, Jackson, MN (US); **Manu George**, Jackson, MN (US)

FOREIGN PATENT DOCUMENTS
GB 2267685 12/1993

(73) Assignee: **AGCO Corporation**, Duluth, GA (US)

OTHER PUBLICATIONS

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 810 days.

International Search Report and Written Opinion from PCT Serial No. PCT/IB2009/007278 (dated Mar. 16, 2010).

* cited by examiner

(21) Appl. No.: **12/268,925**

Primary Examiner — Alicia Torres

(22) Filed: **Nov. 11, 2008**

(65) **Prior Publication Data**
US 2010/0121539 A1 May 13, 2010

(57) **ABSTRACT**

(51) **Int. Cl.**
G06F 19/00 (2011.01)
(52) **U.S. Cl.** **701/50; 701/103; 701/110; 701/115; 123/396; 123/399**
(58) **Field of Classification Search** 3/50, 102, 3/103, 110, 115, 207; 123/350, 352, 357, 123/361, 376, 396, 399, 403; 701/50, 102, 701/103, 110, 115, 207; 56/10.2 A, 10.2 G; 180/170

An engine speed control system for an agricultural vehicle includes a variable throttle controller, a mode selector, and a control device. The variable throttle control permits an operator to select a variably adjustable engine speed and the mode selector permits the operator to select between a plurality of pre-set engine speeds. The control device receives output signals from the throttle controller, generates engine speed commands, and delivers the commands to an engine controller for controlling the speed of the agricultural vehicle's engine. The control device is operable to generate a first engine speed command associated with one of the pre-set engine speeds when an operator activates the mode selector and to temporarily or permanently override the first engine speed command with a second engine speed command associated with the throttle controller when the operator activates the throttle controller.

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS
3,305,042 A * 2/1967 Thorner 180/171
3,322,226 A 5/1967 Marshall et al.

6 Claims, 4 Drawing Sheets

