



US006513512B2

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

(10) **Patent No.:** **US 6,513,512 B2**
(45) **Date of Patent:** ***Feb. 4, 2003**

(54) **PITCHING SYSTEM WITH VIDEO DISPLAY MEANS**

(75) **Inventors:** **Gregory J. Battersby**, Westport, CT (US); **Charles W. Grimes**, Darien, CT (US); **Steve Van Geldern**, Norwalk, CT (US)

(73) **Assignee:** **ProBatter Sports, LLC**, Milford, CT (US)

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

This patent is subject to a terminal disclaimer.

(21) **Appl. No.:** **09/779,129**

(22) **Filed:** **Feb. 8, 2001**

(65) **Prior Publication Data**

US 2001/0006064 A1 Jul. 5, 2001

Related U.S. Application Data

(63) Continuation of application No. 09/457,809, filed on Dec. 9, 1999, now Pat. No. 6,186,134, which is a continuation-in-part of application No. 09/259,722, filed on Mar. 1, 1999, now Pat. No. 6,182,649.

(51) **Int. Cl.⁷** **F41B 4/00**

(52) **U.S. Cl.** **124/78**

(58) **Field of Search** 124/6, 78; 473/451

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,442,823	A	*	4/1984	Floyd et al.	124/78
5,125,653	A	*	6/1992	Kovacs et al.	124/78
5,174,565	A	*	12/1992	Komori	124/78 X
5,359,986	A	*	11/1994	Magrath et al.	124/78
5,464,208	A	*	11/1995	Pierce	124/78 X
6,026,798	A	*	2/2000	Sanders et al.	124/78
6,082,350	A	*	7/2000	Crews et al.	124/78
6,186,134	B1	*	2/2001	Battersby et al.	124/78

* cited by examiner

Primary Examiner—John A. Ricci

(74) *Attorney, Agent, or Firm*—Grimes & Battersby, LLP

(57) **ABSTRACT**

A pitching machine is provided for throwing balls, such as baseballs. The machine is synchronized with a video display, to permit a batter to view an image of a pitcher during a pitch. The machine includes motor-driven coacting wheels to propel the ball. The motors may include dynamic braking circuits to rapidly decelerate the wheels. A programmable controller is provided for controlling the wheel speeds and pitch direction. A smart card reader may be used for programming the controller. The machine is located behind a screen for displaying a moving video image of a pitcher, the screen having an aperture for passage of the ball.

8 Claims, 14 Drawing Sheets

