



US009408341B2

(12) **United States Patent**  
**Straeter**

(10) **Patent No.:** **US 9,408,341 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **SEED VARIETY CHANGER FOR A PLANTER**

(71) Applicant: **James Straeter**, Rochester, IN (US)

(72) Inventor: **James Straeter**, Rochester, IN (US)

(73) Assignee: **Kinze Manufacturing, Inc.**,  
Williamsburg, IA (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.

(21) Appl. No.: **14/836,464**

(22) Filed: **Aug. 26, 2015**

(65) **Prior Publication Data**

US 2015/0359166 A1 Dec. 17, 2015

**Related U.S. Application Data**

(63) Continuation of application No. 13/934,647, filed on Jul. 3, 2013, now Pat. No. 9,148,992, which is a continuation-in-part of application No. 12/688,935, filed on Jan. 18, 2010, now Pat. No. 8,543,238.

(51) **Int. Cl.**

**G06F 7/00** (2006.01)  
**A01C 7/12** (2006.01)  
**A01C 7/20** (2006.01)  
**A01C 7/08** (2006.01)  
**A01C 7/10** (2006.01)  
**A01C 21/00** (2006.01)  
**A01C 7/16** (2006.01)

(52) **U.S. Cl.**

CPC . **A01C 7/12** (2013.01); **A01C 7/081** (2013.01);  
**A01C 7/082** (2013.01); **A01C 7/10** (2013.01);  
**A01C 7/121** (2013.01); **A01C 7/127** (2013.01);  
**A01C 7/16** (2013.01); **A01C 7/20** (2013.01);  
**A01C 21/005** (2013.01)

(58) **Field of Classification Search**

CPC combination set(s) only.  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,938,071 A	8/1999	Sauder	
6,595,148 B2	7/2003	Meyer et al.	
7,086,269 B2 *	8/2006	Sauder	A01C 7/107 73/1.01
2003/0167986 A1 *	9/2003	Sauder	A01C 7/04 111/170
2004/0079264 A1 *	4/2004	Mayerle	A01C 7/20 111/174

\* cited by examiner

*Primary Examiner* — Yolanda Cumbess

(74) *Attorney, Agent, or Firm* — McKee, Voorhees & Sease, PLC

(57) **ABSTRACT**

A system for changing seed variety on a planter includes a plurality of row units with each row unit having a plurality of seed meters. Each seed meter has a guide for delivering seed to a transport belt and a switch that is activated and deactivated by a switch actuator on the belt. The belt has adjustable sidewalls, cover, and lugs.

**20 Claims, 4 Drawing Sheets**

