



US009510546B1

(12) **United States Patent  
Jury**

(10) **Patent No.:** US 9,510,546 B1  
(45) **Date of Patent:** Dec. 6, 2016

- (54) **SOYBEAN VARIETY 01050728**
- (71) Applicant: **Monsanto Technology LLC**, St. Louis, MO (US)
- (72) Inventor: **Thomas P. Jury**, Madison, WI (US)
- (73) Assignee: **Monsanto Technology LLC**, St. Louis, MO (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.

6,972,353	B2	12/2005	Eby	
6,972,354	B2	12/2005	Eby	
6,972,355	B2	12/2005	Eby	
6,979,760	B2	12/2005	Eby et al.	
6,982,367	B2	1/2006	Eby	
7,141,722	B2	11/2006	Fincher et al.	
7,608,761	B2	10/2009	Baley et al.	
7,632,985	B2	12/2009	Malven et al.	
8,053,184	B2	11/2011	Malven et al.	
8,501,407	B2	8/2013	Brinker et al.	
9,017,947	B2	4/2015	Malven et al.	
9,029,650	B2	5/2015	Jury	
2004/0168221	A1*	8/2004	Eby .....	A01H 5/10 800/312

(21) Appl. No.: 14/719,845

(22) Filed: May 22, 2015

- (51) **Int. Cl.**  
A01H 5/10 (2006.01)  
A01H 1/02 (2006.01)  
C12N 15/82 (2006.01)
- (52) **U.S. Cl.**  
CPC A01H 5/10 (2013.01); A01H 1/02 (2013.01);  
C12N 15/8241 (2013.01); C12N 15/8245 (2013.01);  
C12N 15/8247 (2013.01); C12N 15/8251 (2013.01);  
C12N 15/8271 (2013.01); C12N 15/8274 (2013.01);  
C12N 15/8275 (2013.01); C12N 15/8278 (2013.01); C12N 15/8279 (2013.01);  
C12N 15/8286 (2013.01); C12N 15/8289 (2013.01)

(58) **Field of Classification Search**  
None  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS

5,569,815	A	10/1996	Eby
5,576,474	A	11/1996	Lussenden
6,051,753	A	4/2000	Comai et al.
6,660,911	B2	12/2003	Fincher et al.
6,949,696	B2	9/2005	Fincher et al.
6,953,876	B2	10/2005	Floyd
6,958,436	B2	10/2005	Hawbaker
6,960,707	B2	11/2005	Eby et al.
6,967,263	B2	11/2005	Narvel
6,969,787	B2	11/2005	Eby

OTHER PUBLICATIONS

Allard, In: Principles of Plant Breeding, Chapter 6 through Chapter 9, University of California, Davis, California, John Wiley & Sons, New York, pp. 50-98, 1960.

Eshed et al., "Less-than-additive epistatic interactions of quantitative trait loci in tomato," *Genetics*, 143:1807-1817, 1996.

Fehr, "Breeding methods for cultivar development," In: Soybeans: Improvement, Production and Uses, 2<sup>nd</sup> Edition, Wilcox et al., (Eds.), Madison, Wisconsin, 16, pp. 249 and 259, 1987.

Fehr, Iowa State University, "Principles of Cultivar Development," vol. 1 Theory and Technique and vol. 2 Crop Species, Soybean, Macmillian Publishing Company, New York, pp. 360-376, 1987.

Kraft et al., "Linkage disequilibrium and fingerprinting in sugar beet," *Theor. Appl. Genet.*, 101:323-326, 2000.

Variety specific information as indicated in transmittal letter of Sep. 14, 2015 Information Disclosure Statement for U.S. Appl. No. 14/719,845.

\* cited by examiner

Primary Examiner — Vinod Kumar  
(74) Attorney, Agent, or Firm — Dentons US LLP

(57) **ABSTRACT**

The invention relates to the soybean variety designated 01050728. Provided by the invention are the seeds, plants and derivatives of the soybean variety 01050728. Also provided by the invention are tissue cultures of the soybean variety 01050728 and the plants regenerated therefrom. Still further provided by the invention are methods for producing soybean plants by crossing the soybean variety 01050728 with itself or another soybean variety and plants produced by such methods.

**20 Claims, No Drawings**