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Lussenden

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- (54) **SOYBEAN VARIETY 01050689**
- (71) Applicant: **Monsanto Technology LLC**, St. Louis, MO (US)
- (72) Inventor: **Roger L. Lussenden**, Redwood Falls, MN (US)
- (73) Assignee: **Monsanto Technology LLC**, St. Louis, MO (US)

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 et al.
 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.
 2004/0168221 A1* 8/2004 Eby A01H 5/10
 800/312

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(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, 2nd 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.
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* 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 01050689. Provided by the invention are the seeds, plants and derivatives of the soybean variety 01050689. Also provided by the invention are tissue cultures of the soybean variety 01050689 and the plants regenerated therefrom. Still further provided by the invention are methods for producing soybean plants by crossing the soybean variety 01050689 with itself or another soybean variety and plants produced by such methods.

21 Claims, No Drawings