US009986702B1

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

(10) **Patent No.: US 9,986,702 B1**
(45) **Date of Patent: Jun. 5, 2018**

(54) **CANOLA INBRED RESTORER LINE G1934899R**

(71) Applicant: **Agrigenetics, Inc.**, Indianapolis, IN (US)

(72) Inventors: **Jianwei Zhao**, Saskatoon (CA); **Donna Carolynn Knievel**, Saskatoon (CA); **Gregory Ross Gingera**, Saskatoon (CA)

(73) Assignee: **Agrigenetics, Inc.**, Indianapolis, IN (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 96 days.

(21) Appl. No.: **14/946,460**

(22) Filed: **Nov. 19, 2015**

Related U.S. Application Data

(60) Provisional application No. 62/087,896, filed on Dec. 5, 2014.

(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 15/8245*** (2013.01); ***C12N 15/8247*** (2013.01); ***C12N 15/8274*** (2013.01); ***C12N 15/8275*** (2013.01); ***C12N 15/8277*** (2013.01); ***C12N 15/8278*** (2013.01); ***C12N 15/8281*** (2013.01); ***C12N 15/8282*** (2013.01); ***C12N 15/8283*** (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

5,523,520	A	6/1996	Hunsperger et al.
5,850,026	A	12/1998	DeBonte et al.
5,912,421	A	6/1999	Boerboom
5,959,185	A	9/1999	Streit
5,973,234	A	10/1999	Mueller
5,977,445	A	11/1999	Soper
6,025,547	A	2/2000	Stucker
6,096,953	A	8/2000	Hoffbeck
6,248,876	B1	6/2001	Barry
6,355,867	B1	3/2002	Bradbury
6,433,254	B1	8/2002	Sernyk
6,444,879	B1	9/2002	Sernyk
6,455,763	B1	9/2002	Sernyk
6,489,543	B1	12/2002	Sernyk
6,815,594	B2	11/2004	Dragonuk et al.
6,906,251	B1	6/2005	Morrow
7,304,614	B2	12/2007	Silva
7,335,510	B2	2/2008	Schneeberger et al.
7,348,473	B2	3/2008	Kubik
7,351,882	B2	4/2008	Patel
7,355,100	B2	4/2008	Kubik
7,408,099	B1	8/2008	Tietz
7,411,117	B2	8/2008	Bonning
7,456,339	B2	11/2008	Patel
7,718,852	B2	5/2010	Chungu
7,723,577	B2	5/2010	Chungu
7,723,578	B2	5/2010	Chungu
7,723,579	B2	5/2010	Chungu
7,723,581	B2 *	5/2010	Chungu A01H 5/10 435/430
7,723,582	B2	5/2010	Chungu
7,723,850	B2	5/2010	Chungu
7,728,195	B2	6/2010	Chungu
7,820,889	B1	10/2010	Byrnes et al.
8,304,611	B2	11/2012	Kubik
8,304,612	B2	11/2012	Kubik
8,304,613	B2	11/2012	Kubik
8,304,614	B2	11/2012	Kubik
8,324,459	B2	12/2012	Kubik
8,324,460	B2	12/2012	Chungu
8,324,461	B2	12/2012	Chungu
8,367,896	B2	2/2013	Chungu
8,378,177	B2	2/2013	Chungu
8,389,811	B2	3/2013	Chungu
8,519,228	B2	8/2013	Gingera
8,519,229	B2	8/2013	Gingera
8,541,656	B2	9/2013	Chungu
8,541,657	B2	9/2013	Ripley
8,541,858	B2	9/2013	Ripley
8,558,064	B2	10/2013	Ripley
8,558,065	B2	10/2013	Kubik
8,563,810	B2	10/2013	Kubik
8,563,811	B2	10/2013	Kubik
8,530,726	B2	11/2013	Kubik
8,575,435	B2	11/2013	Gingera
8,664,477	B2	3/2014	Gingera
8,669,422	B2	3/2014	Ripley et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP	0242246	10/1987
EP	EO0333033	9/1989
WO	WO9302197	2/1993
WO	WO9319181	9/1993
WO	WO9400992	1/1994
WO	WO9518855	6/1995
WO	WO9518855	7/1995
WO	WO9630517	10/1996
WO	WO9630530	10/1996
WO	WO2005012515	2/2005
WO	WO2005107437	11/2005
WO	WO2007016521	2/2007

OTHER PUBLICATIONS

Allard, In Principles of Plant Breeding, John Wiley & Sons, Inc. pp. 155-156, 1960.

(Continued)

Primary Examiner — Elizabeth F McElwain
(74) *Attorney, Agent, or Firm* — Marcia I. Rosenfeld

(57) **ABSTRACT**

The present invention relates to a new and distinctive canola, designated G1934899R. Also included are seeds of canola G1934899R, to the plants, or plant parts, of canola G1934899R and to methods for producing a canola plant produced by crossing the canola G1934899R with itself or another canola genotype, and the creation of variants by mutagenesis or transformation of canola G1934899R.

20 Claims, No Drawings