

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Zeneca Limited	02/24/1997
RECEIVING PARTY DATA	
Name:	Monsanto Company
Street Address:	800 North Lindbergh Boulevard
City:	St. Louis
State/Country:	MISSOURI
Postal Code:	63167
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	5578382
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REEL: 018515 FRAME: 0223

USASSIGN
USA

A S S I G N M E N T

WHEREAS, ZENECA Limited of 15 Stanhope Gate, London W1Y 6LN, United Kingdom, a company created and existing under the laws of England has acquired the entire right, title and interest, by assignment, in and to the following Letters Patent of the United States of America and applications for Letters Patent of the United States of America:

Letters Patent

Patent No	Date of Issue	Surname of Inventors
4336334	22 June 1982	Powell, Collinson
4324907	13 April 1982	Alderson, Senior and Wright
4360488	23 November 1982) Barham and Selwood
4391766	5 July 1983	
4433053	21 February 1984	Hughes and Richardson
4393167	12 July 1983	Holmes, Newton and Wilimouth
4477654	16 October 1984	Colins, Holmes and Wright
4427614	24 January 1984	Barham and Holmes
4477655	16 October 1984	Holmes
4537738	27 August 1985	Holmes
4562245	31 August 1985	Stageman
4910145	20 March 1990	Holmes and Lim
5266470	30 November 1993	Collins, Richardson and Senior
5296362	22 March 1994) Anderson, Byrom, Dawes and Haywood
5387513	7 February 1995	
5126255	30 June 1992) Anderson, Byron, Dawes and Haywood
5264546	23 November 1993	
5061743	29 October 1991	Herring and Webb
5364779	15 November 1994	Byrom
5281649	25 January 1994	Barham, Organ and Webb
5478892	26 December 1995	Buckman and Ballard
5516825	14 May 1996	Montador and Webb
5560962	11 October 1996	Brunger and Kemmish
5525658	11 June 1996	Greer and Liddell
5550173	27 August 1996	Bal and Hammond
5534616	9 July 1996	Waddington

Applications for Letters Patent

Serial No	Filing Date	Surname of Inventors
07/949524	24 May 1991	Byrom and Steinbuchel
08/374662	13 July 1993	George and Liddell
08/407030	28 September 1993	Clauss, George, Horowitz, Hunter and Sanders
08/424458	27 October 1993	Greer

Applications for Letters Patent - Continued

Serial No	Filing Date	Surname of Inventors
08/433343	4 November 1993	Hammond
08/433501	12 November 1993	Cummings, Rees and Watson
08/595213	1 February 1996	Waddington
08/495449	26 January 1993	De Koning
08/530332	7 April 1994	Liddell and Locke
08/553412	20 May 1994	Liggatt
08/553642	1 June 1994	Liggatt and O'Brien
08/556932	1 June 1994	Liggatt and O'Brien
08/553644	1 June 1994	Liggatt and O'Brien
08/553649	1 June 1994	Hammond, Liggatt, Montador and Webb
08/591558	11 July 1994	Kemmish
08/647,909	30 May 1996	Kemmish and Montador

AND WHEREAS, Monsanto Company of 800 North Lindbergh Boulevard, St Louis, Missouri 63167, USA, a company incorporated and existing under the laws of the State of Delaware, United States of America is desirous of acquiring the entire right, title and interest in and to the above listed United States Letters Patent and applications for United States Letters Patent and the inventions covered thereby;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, the said ZENECA Limited has assigned, sold and transferred, and by these presents does assign, sell and transfer unto the said Monsanto Company the entire right, title and interest in and to the said inventions, in the United States and its territorial possessions and the entire right, title and interest in and to said listed Letters Patent and applications for Letters Patent, and in and to any and all Letters Patent which may be granted on said applications in the United States and its territorial possessions and in and to any and all divisions, reissues, continuations and extensions thereof, the same to be held and enjoyed by the said Monsanto Company its successors, assigns and legal representatives, to the full end of the term for the said listed Letters Patent and any and all Letters Patent which may be granted on said applications as fully and entirely as the same would have been held and enjoyed by ZENECA Limited if this assignment had not been made.

ZENECA Limited hereby authorises and requests the Commissioner of Patents and Trademarks to issue any and all of the Letters Patent on said

applications, when granted, to said Monsanto Company as the assignee of ZENECA Limited's entire right, title and interest in and to the same, for the sole use and enjoyment of said Monsanto Company its successors and assigns.

IN WITNESS WHEREOF, ZENECA Limited has caused its Common Seal to be affixed this 24th day of February 1997.

THE COMMON SEAL OF ZENECA Limited
was hereunto affixed in the presence of


.....
Director


.....
GRAEME R. R. MUSKER

Company Secretary

No Legalisation