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05-28-1998



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S. DEPARTMENT OF COMMERCE

Patent and Trademark Office  
Docket No. 338802000220

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Maire Philippa Ryan, Reynolds Paul Ross and Mary Clare Rea

- ☒ Individual(s)      ☐ Association  
☐ General Partnership      ☐ Limited Partnership  
☐ Corporation-State      ☐ Other

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: TEAGASC, The Agricultural and Food Development  
Authority

Internal Address:

Street Address: 19 Sandymount Avenue

City: Dublin, Country: IRELAND ZIP: 4

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Change of Name  
☐ Other:

Execution Date: April 20, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)  
08/945,081

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence concerning  
document should be mailed:Antoinette F. Konski  
Morrison & Foerster LLP  
755 Page Mill Road  
Palo Alto, California 94304-1018

6. Total number of applications and patents involved: One

7. Total fee (37 C.F.R. § 3.41): \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account, referencing  
Attorney Docket 338802000220

8. Deposit account number: 03-1952The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952.**DO NOT USE THIS SPACE**

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Name: Antoinette F. Konski  
Registration No: 34,202

Signature

Date

Total number of pages comprising cover sheet, attachments and document: 2

05/27/1998 JMWKINS 00000087 08945081

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Documents to be recorded with required cover sheet information to:

U.S. Patent and Trademark Office

Office of Public Records

Box Assignments

Crystal Gateway 4, Room 335

Washington, D.C. 20231

pa-272953

PATENT

REEL: 9186 FRAME: 0976

# ASSIGNMENT JOINT

THIS ASSIGNMENT, by Marie Philippa Ryan, Reynolds Paul Ross and Mary Clare Rea (hereinafter referred to as the assignors), residing at Freighduff, County Tipperary, Ireland, Main St., Kilworth, County Cork, Ireland and Strawhall, Fermoy, County Cork, Ireland, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in BACTERIOCINS, set forth in an application for Letters Patent of the United States, bearing Serial No. 08/945,081 and filed on October 10, 1997; and

WHEREAS, TEAGASC, The Agricultural and Food Development Authority, a non-profit organization duly organized under and pursuant to the laws of IRELAND and having its principal place of business at 19 Sandymount Avenue, Dublin 4, Ireland (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

20/4/98  
Date

Marie Philippa Ryan

20/4/98  
Date

Reynolds Paul Ross

20/4/98  
Date

Mary Clare Rea