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*A23K 1/18* (2006.01)
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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,

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**Declarations under Rule 4.17:**

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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(54) **Title:** A METHOD FOR IMPROVING MAIZE DIGESTIBILITY IN BOVINE ANIMALS

(57) **Abstract:** The invention relates to the use of at least one bacterial amylase in combination with one or more protease(s) in feed for ruminant animals of the subfamily Bovinae for improving digestibility of maize and/or maize silages, in particular for improving milk yield, weight gain, and/or Feed Conversion Ratio (FCR). Examples of bovine animals are dairy cows and beef cattle. The invention also relates to the use of such enzyme combinations in feed additive compositions and animal feed compositions enriched with maize and maize silages.

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/EP2015/053908

A. CLASSIFICATION OF SUBJECT MATTER  
INV. A23K1/165 A23K1/18 A23K1/14  
ADD.  
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED  
Minimum documentation searched (classification system followed by classification symbols)  
A23K A23L C12N  
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	A.Z.M. SALEM ET AL: "Effects of exogenous enzymes on nutrient digestibility, ruminal fermentation and growth performance in beef steers", LIVESTOCK SCIENCE, vol. 154, no. 1-3, 1 June 2013 (2013-06-01), pages 69-73, XP055186949, ISSN: 1871-1413, DOI: 10.1016/j.livsci.2013.02.014	1,2,4-6, 8-11
Y	the whole document ----- -/--	1,3-5, 7-11

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search  17 June 2015	Date of mailing of the international search report  24/08/2015
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Krajewski, Doris

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International application No  
PCT/EP2015/053908

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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