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(54) **CELLS PRODUCING GLYCOPROTEINS HAVING ALTERED GLYCOSYLATION PATTERNS AND METHOD AND USE THEREOF**

FOREIGN PATENT DOCUMENTS

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 545 days.

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(65) **Prior Publication Data**

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(30) **Foreign Application Priority Data**

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(51) **Int. Cl.**

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(52) **U.S. Cl.**

USPC **435/325**; 435/254.1; 435/254.2;
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(58) **Field of Classification Search**

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See application file for complete search history.

(57) **ABSTRACT**

The present application relates to the field of glyco-engineering, more specifically to eukaryotic cells wherein both an endoglucosaminidase and a glycoprotein are present. These cells can be used to deglycosylate or partly deglycosylate the (exogenous) glycoprotein, in particular without the need for adding an extra enzyme. Methods are also provided for the application of these cells in protein production. According to one specific aspect, the eukaryotic cells and methods are glyco-engineered yeast cells in which additionally at least one exogenous enzyme needed for complex glycosylation is present, e.g. allowing easier separation of differentially glycosylated glycoproteins.

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22 Claims, 10 Drawing Sheets