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— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: VECTORS AND YEAST STRAINS FOR PROTEIN PRODUCTION

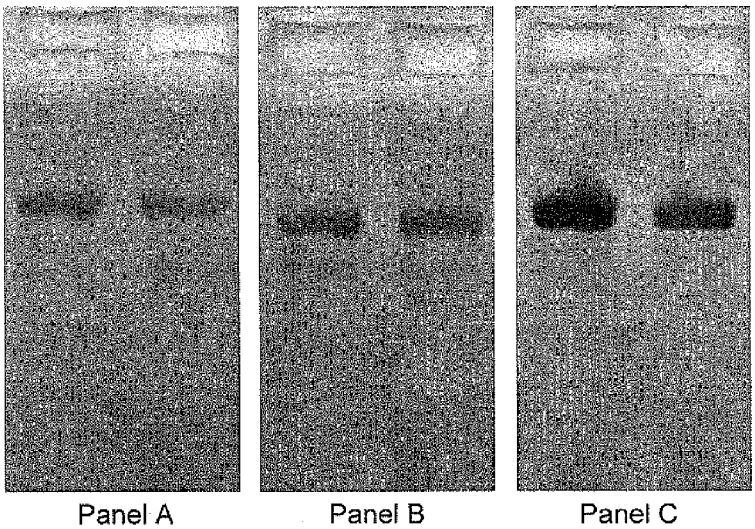


FIG. 1

(57) Abstract: Lower eukaryote host cells in which the function of at least one endogenous gene encoding a chaperone protein, such as a Protein Disulphide Isomerase (PDI), has been reduced or eliminated and at least one mammalian homolog of the chaperone protein is expressed are described. In particular aspects, the host cells further include a deletion or disruption of one or more *O*-protein mannosyltransferase genes, and/or overexpression of an endogenous or exogenous $Ca2^{+}$ ATPase. These host cells are useful for producing recombinant glycoproteins in large amounts and for producing recombinant glycoproteins that have reduced *O*-glycosylation.

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