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[Continued on next page]

(54) **Title**: METHOD FOR IDENTIFYING ALLERGENIC PROTEINS AND PEPTIDES

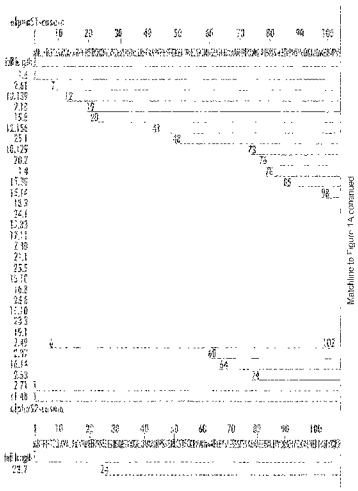


Fig. 1A

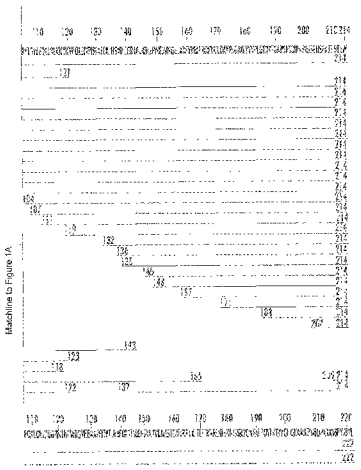


Fig. 1A continued

(57) **Abstract**: The present invention relates to a method for identifying allergenic proteins and peptides. More specifically, the present invention provides a method for identifying allergenic milk proteins and/or peptides comprising the steps of: providing at least one expression library comprising DNA or cDNA derived from the mammary gland tissue of a lactating mammal, preferably a lactating cow, expressing at least one protein or peptide encoded by said expression library, determining the binding capacity of said at least one protein or peptide to IgE of at least one serum of an individual who is sensitive to mammalian milk,preferably cow's milk, contacting the at least one protein or peptide exhibiting an IgE binding capacity as determined in step c) with basophil cells, eosinophil cells or mast cells and identifying the at least one protein or peptide as being allergenic when said basophil cells, eosinophil cells or mast cells release upon contact with at least one protein or peptide of step d) at least one mediator.

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