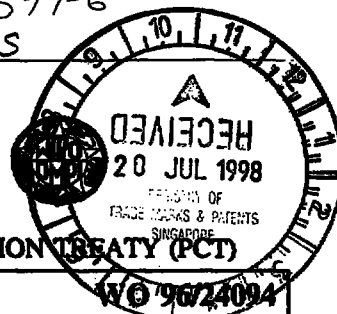


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(54) Title: LOGARITHM/INVERSE-LOGARITHM CONVERTER UTILIZING SECOND-ORDER TERM AND METHOD OF USING SAME

(57) Abstract

A converter which may be used for implementing either logarithmic or inverse-logarithmic functions is disclosed. The converter includes a memory (20), a multiplier (22), and two adders (24 and 26). The memory (20) stores a plurality of parameters and second-order terms which are derived using a least squares method to estimate a logarithmic or inverse-logarithmic function over a domain of input values. A method of computing the parameters and second-order terms is also disclosed.

