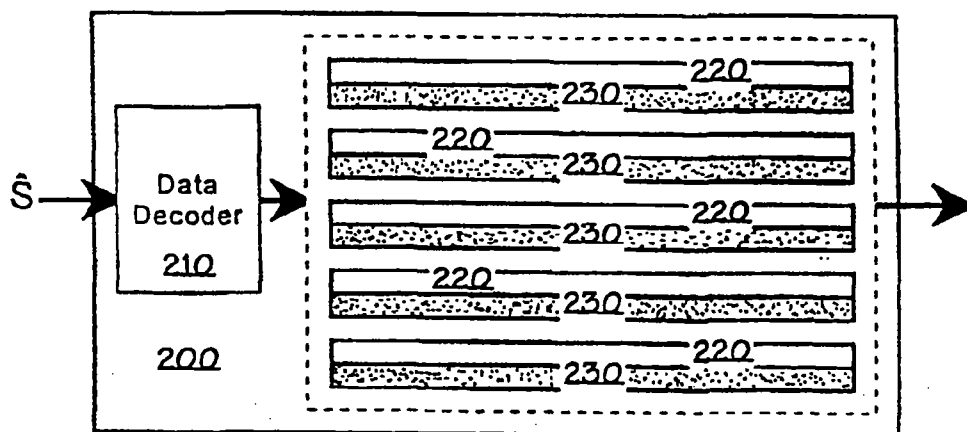




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(54) Title: CONTENT ADDRESSABLE MEMORY ADDRESSABLE BY REDUNDANT FORM INPUT DATA

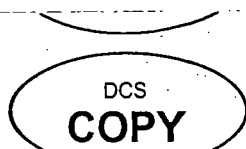


(57) Abstract

A content addressable memory (200) compares the value of redundant form input data to non-redundant form values stored in registers (220s) of the memory. The memory decodes the redundant form input data in a data decoder (210). Thereafter, the CAM performs match detection on the decoded data. The decoding and match detection are performed more quickly than traditional adders and even more quickly than complete redundant form adders.



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