

ABSTRACT

DATA COMPRESSION APPARATUS, METHOD, AND PROGRAM

5 A data compression apparatus is provided. The data
compression apparatus includes a matching string searching unit
configured to extract a second character string as a matching
string from a character string after a first character string
in a character string of data before compression, the second
10 character string being identical with the first character
string, and identifies a length of the matching string, and a
relative position indicating how many addresses the first
character string precedes the second character string by, a
matching string dividing unit configured to extract a third
15 character string having a length that is less than the relative
position from the second character string extracted by the
matching string searching unit, a matching length encoder
configured to encode a length of the third character string;
and a matching position encoder configured to encode the
20 relative position.

FIG. 14