

(54) **SYSTEM AND METHOD FOR EFFECTIVE COMPRESSION REPRESENTATION AND DECOMPRESSION OF DIVERSE TABULATED DATA**

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(21) Appl. No.: **18/430,843**

(22) Filed: **Feb. 2, 2024**

**Related U.S. Application Data**

(63) Continuation of application No. 17/767,070, filed on Apr. 7, 2022, now Pat. No. 11,916,576, filed as application No. PCT/EP2020/079298 on Oct. 17, 2020.

(60) Provisional application No. 62/956,952, filed on Jan. 3, 2020.

**Publication Classification**

(51) **Int. Cl.**  
**H03M 7/30** (2006.01)  
**G06F 16/13** (2019.01)  
**G06F 21/60** (2013.01)

(52) **U.S. Cl.**  
CPC ..... **H03M 7/6082** (2013.01); **G06F 16/13**  
(2019.01); **G06F 21/604** (2013.01); **H03M**  
**7/70** (2013.01)

(57) **ABSTRACT**

A method for controlling compression of data includes accessing genomic annotation data in one of a plurality of first file formats, extracting attributes from the genomic annotation data, dividing the genomic annotation data into multiple chunks, and processing the extracted attributes and chunks into correlated information. The method also includes generating a file in a second file format that includes the correlated information and information indicative of the different compressors for the chunks and attributes indicated in the correlated information. The information indicative of the different compressors is processed into the second file format to allow selective decompression of the attributes and chunks indicated in correlated information. The method also includes generating access control policy information for the correlated information and integrating the access control policy information into the file of the second file format.

