

(12) **UK Patent Application** (19) **GB** (11) **2579313** (13) **A**

(43) Date of Reproduction by UK Office **17.06.2020**

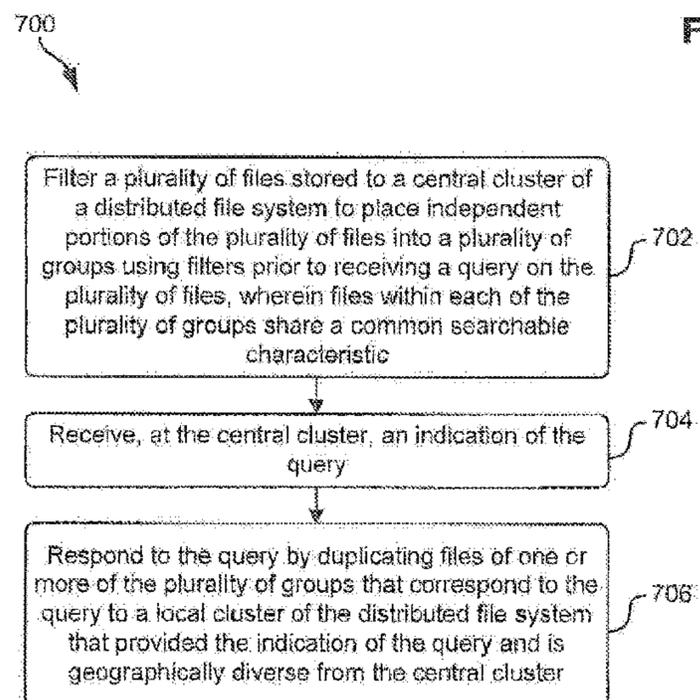
(21) Application No: **2002252.1**
(22) Date of Filing: **17.07.2018**
Date Lodged: **19.02.2020**
(30) Priority Data:
(31) **15660715** (32) **26.07.2017** (33) **US**
(86) International Application Data:
PCT/IB2018/055296 En 17.07.2018
(87) International Publication Data:
WO2019/021114 En 31.01.2019

(51) INT CL:
G06F 16/00 (2019.01)
(56) Documents Cited:
CN 106527993 A **CN 104866497 A**
CN 104484404 A **CN 010550180 A**
(58) Field of Search:
INT CL **G06F**
Other: **CNXT, CNABS, VEN, CNKI**

(71) Applicant(s):
International Business Machines Corporation
New Orchard Road, Armonk 10504, New York,
United States of America
(72) Inventor(s):
Subashimi Balachandran
Rui Zhang
(74) Agent and/or Address for Service:
IBM United Kingdom Limited
Intellectual Property Law, Hursley Park,
WINCHESTER, Hampshire, SO21 2JN,
United Kingdom

(54) Title of the Invention: **Cognitive file and object management for distributed storage environments**
Abstract Title: **Cognitive file and object management for distributed storage environments**

(57) A method includes filtering a plurality of files stored to a central cluster of a distributed file system to place independent portions of the plurality of files into a plurality of groups using filters prior to receiving a query on the plurality of files. Files within each of the plurality of groups share a common searchable characteristic. The method also includes receiving, at the central cluster, an indication of the query. Moreover, the method includes responding to the query by duplicating files of one or more of the plurality of groups that correspond to the query to a local cluster of the distributed file system that provided the indication of the query and is geographically diverse from the central cluster.



GB 2579313 A