The United States of America

UNITED STATES PATENT

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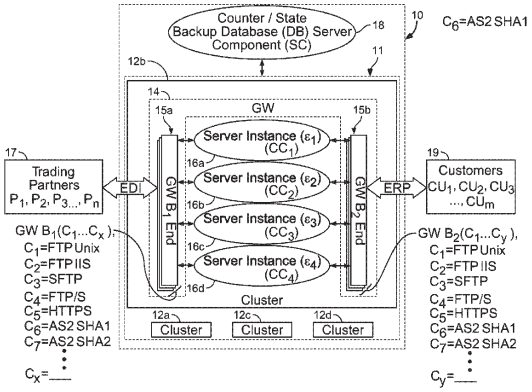
10,362,109

CLOUD OPERATING SYSTEM AND METHOD



A cloud operating system (COS) and a computer system and method using the cloud operating system to perform electronic data interchange transfers of documents, converted as needed to file formats usable by receiving entities. The COS is configured to operate on a plurality of machines including an external computer system hosting a single server component and a database system-wide critical state/counter tables, and one or more server clusters interacting with the server component and state/counter database. Each server cluster includes a gateway computer system including a gateway storage volume on which sending and receiving entities are provisioned, and a plurality of processing server instances, each configured, on a revolving basis, to request permission from the server component to access the gateway storage volume to receive a document from a sending entity, receive and convert the document, request permission to transfer the converted document back to the gateway, and transfer the converted document back to the gateway when permitted.

The Director of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law. Therefore, this

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Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term of this patent, subject to the payment of maintenance fees as provided by law.

Director of the United States Patent and Trademark Office