EXHIBIT 2A

Claim Chart for Amazon Simple Storage Service (S3) U.S. PATENT NO. 7,802,310

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Controlling Access To Data In A Data Processing System

CLAIM 24 '310 PATENT	Amazon Simple Storage Service (S3)
24. A computer-implemented method implemented at least in part by hardware comprising one or more processors, the method comprising:	Although a review of Defendant's source code is necessary to confirm, Pla Amazon S3 (Simple Storage Service) is an online storage web service offe Services that performs a computer-implemented method implemented at le hardware comprising one or more processors. Amazon S3 provides storage through web services interfaces. S3 stores ar (computer files) up to 5 terabytes in size, each accompanied by up to 2 kilo Objects are organized into buckets (each owned by an Amazon Web Servic and identified within each bucket by a unique, user-assigned key. [http://en.wikipedia.org/wiki/Amazon_S3; http://aws.amazon.com/s3/].
(a) using a processor, receiving at a first computer from a second computer, a request regarding a particular data item, said request including at least a content-dependent name for the particular data item, the content-dependent name being based, at least in part, on at least a function of the data in the particular data item, wherein the data used by the function to determine the content-dependent name comprises at least some of the contents of the particular data item, wherein the function that was used comprises a message	Although a review of Defendant's source code is necessary to confirm, Pla Amazon's S3, using a processor, receives at a first computer (Amazon's se computer (an end user's computer), a request regarding a particular data ite including at least a content-dependent name (an "ETag") for the particular dependent name being based, at least in part, on at least a function of the da data item (i.e., it is a hash), wherein the data used by the function to determ dependent name comprises at least some of the contents of the particular da function that was used comprises a message digest function or a hash funct identical data items will have the same content-dependent name. When performing a multipart upload, Amazon S3 automatically generates retrieve the data being uploaded. [http://awsdocs.s3.amazonaws.com/S3/la Objects greater than 5GB in size require the use of the multipart upload AP [http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf].

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digest function or a hash function, and wherein two identical data items will have the same content-dependent name;	**Common Response Headers** The following table describes response headers that are common to most AWS **Name** / **Description** Content-Length: The length in bytes of the body in the response. Type: String Default: None Connection: specifies whether the connection to the server is open or Type: Enum Valid Values: open | close Default: None Date: The date and time Amazon S3 responded, for example, W 12:00:00 GMT. Type: String Default: None ETag: The entity tag is a hash of the object. The ETag only reflec contents of an object, not its metadata. The ETag is deter is created. For objects created by the PUT Object operation operation, the ETag is a quoted, 32-digit hexadecimal stri MD5 digest of the object data. For other objects, the ETag MD5 digest of the object data. If the ETag is not an MD5 di it will contain one or more non-hexadecimal characters an than 32 or more than 32 hexadecimal digits. Type: String Server: The name of the server that created the response [http://awsdocs.s3.amazonaws.com/S3/latest/s3-api.pdf]. **Multipart Uploads:**

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	S3 performs multipart uploads through the generation and use of a an "ETa hash (because it is a PUT operation, it is a MD5 hash, see "common respon above,) of the data-part, which is required for a later request to complete th and for Amazon S3 to concatenate the parts together to form a single objec [http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf]. And once combin responds with an ETag that uniquely identifies the combined data. [http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf]. Multipart uploading is a three-step process: You initiate the upload, you upload the you have uploaded all the parts, you complete the multipart upload. Upon receiving upload request, Amazon S3 constructs the object from the uploaded parts, and yo object just as you would any other object in your bucket. (http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf) **Parts Upload Step** **Parts Upload** When uploading a part, in addition to the upload ID, you must specify a part numb any part number between 1 and 10,000. A part number uniquely identifies a part object you are uploading. If you upload a new part using the same part number as part, the previously uploaded part is overwritten. Whenever you upload a part, An *ETag* header in its response. For each part upload, you must record the part numb You need to include these values in the subsequent request to complete the multi (http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf)

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CLAIM 24 '310 PATENT	Amazon Simple Storage Service (S3)
	Multipart Upload Completion (or Abort) When you complete a multipart upload, Amazon S3 creates an object by concaten order based on the part number. If any object metadata was provided in the *initia* request, Amazon S3 associates that metadata with the object. After a successful parts no longer exist. Your *complete multipart upload* request must include the up both part numbers and corresponding ETag values. Amazon S3 response include identifies the combined object data. This ETag will not necessarily be an MD5 ha You can optionally abort the multipart upload. After aborting a multipart upload, y part using that upload ID again. All storage that any parts from the aborted multi is then freed. If any part uploads were in-progress, they can still succeed or fail e To free all storage consumed by all parts, you must abort a multipart upload only have completed. (http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf) * Note: It is our current understanding that the individual parts uploaded w object operations necessarily have an ETag that is the MD5 hash of the obj above titled "Common Response Headers,") however the ETag of the *comb* not necessarily be an MD5 hash of the object data."

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