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EXHIBIT 2F

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Claim Chart for Amazon Simple Storage Service (S3) for U.S. PATENT NO. 5,978,79

Issued November 2, 1999

Data Processing System Using Substantially Unique Identifiers To Identify Data Item Whereby Identical Data Items Have the Same Identifiers

CLAIM 1 '791 PATENT	Amazon Simple Storage Service (S3)	
1. In a data processing system, an apparatus comprising:	Amazon S3 (Simple Storage Service) is an online storage web service offe Services that uses a data processing system. 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 kilc 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/].	
identity means for determining, for any of a plurality of data items present in the system, a substantially unique identifier, the identifier being determined using and depending on all of the data in the data item and only the data in the data item whereby two	Plaintiffs contend that this element is governed by 35 U.S.C. § 112(6). The structures, acts, or materials in the Accused Instrumentality that performs the as follows: the hardware and software used by the Amazon S3 system, whe "ETag," determines, for any of a plurality of data items present in the syste unique identifier, the identifier being determined using and depending on a data item and only the data in the data item, whereby two identical data item have the same identifier.	
identical data items in the system will have the same identifier; and	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 AF [http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf].	

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U.S. PATENT NO. 5,978,791

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Data Processing System Using Substantially Unique Identifiers To Identify Data Items Whereby Identical Data Items Have the Same Identifiers

CLAIM 1 '791 PATENT	Amazon Simple Storage Service (S3)		
	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, V 12:00:00 GMT. Type: String Default: None
		ETag	The entity tag is a hash of the object. The ETag only reflect contents of an object, not its metadata. The ETag is determined is created. For objects created by the PUT Object operation operation, the ETag is a quoted, 32-digit hexadecimal struct 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 are than 32 or more than 32 hexadecimal digits. Type: String
	[http://av	vsdocs.s3.amazona	The name of the server that created the response ws.com/S3/latest/s3-api.pdf].

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Data Processing System Using Substantially Unique Identifiers To Identify Data Items Whereby Identical Data Items Have the Same Identifiers

CLAIM 1 '791 PATENT	Amazon Simple Storage Service (S3)	
	Multipart Uploads:	
	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 responsabove,) of the data-part, which is required for a later request to complete the and for Amazon S3 to concatenate the parts together to form a single object [http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf]. And once combine 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	

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U.S. PATENT NO. 5,978,791

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Data Processing System Using Substantially Unique Identifiers To Identify Data Items Whereby Identical Data Items Have the Same Identifiers

CLAIM 1 '791 PATENT	Amazon Simple Storage Service (S3)		
	Parts Upload		
	When uploading a part, in addition to the upload ID, you must specify a part numerical 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, Art ETag header in its response. For each part upload, you must record the part number You need to include these values in the subsequent request to complete the multiplication.		
	(http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf)		
	Multipart Upload Completion (or Abort)		
	When you complete a multipart upload, Amazon S3 creates an object by concatent order based on the part number. If any object metadata was provided in the <i>initia</i> request, Amazon S3 associates that metadata with the object. After a successful parts no longer exist. Your <i>complete multipart upload</i> 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 had 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 of 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 <i>com</i> .		

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