Case 5:18-md-02834-BLF Document 340-6 Filed 01/09/19 Page 1 of 97

EXHIBIT 2E



Case 5:18-md-02834-BLF Document 340-6 Filed 01/09/19 Page 2 of 97

Claim Chart for Amazon S3 for U.S. PATENT NO. 7,945,544 Issued May 17, 2011

CLAIM 1 '544 PATENT	Amazon Simple Storage Service (S3)	
 A computer-implemented method, the method comprising: (A) for a first data item comprising a first plurality of parts, 	Although a review of Defendant's source code is necessary to confirm, Pla Amazon S3, in combination with replication and multi-part uploads, operat comprising a plurality of parts.	
a mot planarity of parts,	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].	



Case 5:18-md-02834-BLF Document 340-6 Filed 01/09/19 Page 3 of 97

U.S. PATENT NO. 7,945,544

Issued May 17, 2011

CLAIM 1 '544 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 reflected 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 strong MD5 digest of the object data. For other objects, the ETag MD5 digest of the object data. If the ETag is not an MD5 dit will contain one or more non-hexadecimal characters are than 32 or more than 32 hexadecimal digits. Type: String	
		Carnar	The name of the corver that created the reconce	
	[http://aw	sdocs.s3.amazona	ws.com/S3/latest/s3-api.pdf].	
	Multipar	t Uploads:		



Case 5:18-md-02834-BLF Document 340-6 Filed 01/09/19 Page 4 of 97

U.S. PATENT NO. 7,945,544

Issued May 17, 2011

CLAIM 1 '544 PATENT	Amazon Simple Storage Service (S3)		
	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 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 y 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 num 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, Ar 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 multi-		
	(http://awsdocs.s3.amazonaws.com/S3/latest/s3-dg.pdf)		



Case 5:18-md-02834-BLF Document 340-6 Filed 01/09/19 Page 5 of 97

U.S. PATENT NO. 7,945,544

Issued May 17, 2011

CLAIM 1 '544 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 <i>initia</i> request, Amazon S3 associates that metadata with the object. After a successful parts no longer exist. Your complete multipart upload request must include the uploat 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, you part using that upload ID again. All storage that any parts from the aborted multipart uploads were in-progress, they can still succeed or fail of the 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 common not necessarily be an MD5 hash of the object data."		



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

