Microsoft contends that the asserted claims of the '132 Patent are invalid as obvious by Callaghan, "NFS Illustrated" (Addison-Wesley Ed. 2000) (Callaghan), Rodriguez-Martinez, "Automatic Deployment of Application-Specific Metadata and Code in MOCHA" ("Rodriguez-Martinez"), and Lomb, "Storage Management Solutions for Distributed Computing Environments" ("Lomb") prior art references under various subsections of 35 U.S.C. § 102 in view of other prior art references under 35 U.S.C. § 103 as set forth in Microsoft's invalidity contentions.

As Callaghan was published as early as 2000 and no later than 2001, Microsoft contends that it is prior art to the '132 Patent under at least pre-AIA 35 U.S.C. § 102(b).

As Rodriguez-Martinez was published in 1999, Microsoft contends that it is prior art to the '132 Patent under at least pre-AIA 35 U.S.C. § 102(b).

As Lomb was published in 1996, Microsoft contends that it is prior art to the '132 Patent under at least pre-AIA 35 U.S.C. § 102(b).

Patent No. 8,671,132 Claim Limitation(s)	Disclosures			
"wherein the method	Callaghan, "NFS Illustrated" (Addison-Wesley Ed. 2000) ("Callaghan")			
further comprises				
translating the one or more	Callaghan discloses translating the one or more attributes. For example, Callaghan states:			
attributes" (Claim element				
22[a])	"The NFS protocol allows files to be named by a sequence of names that make up a path. The protocol is careful not to require that pathnames be supported as entities within the protocol itself. A pathname is evaluated with a sequence of LOOKUP requests. Component-by-component evaluation make it unnecessary for the protocol to reserve a character to separate the components in a pathname. It is fortunate for PC-UNIX interoperability because UNIX uses a forward slash separator, a/b/c, whereas PC clients use a backslash, a\b\c.			
	UNIX servers are <i>case-sensitive</i> and <i>case-preserving</i> . This means that a UNIX server sees ABC123 and abc123 as two different filenames – it is sensitive to differences in case. When a name is assigned to a new file, the UNIX server will preserve the cases of the characters in the filename; it will not map to uppercase or lowercase. DOS clients are case-insensitive and are not case-preserving. This means that a DOS client cannot distinguish the name ABC123 from abc123. If the file Abc123 is created, instead of preserving the cases, it will map all characters to uppercase—ABC123. A Windows client is <i>case-insensitive</i> and <i>case-preserving</i> . Like a DOS client, it cannot tell the difference between			

Patent No. 8,671,132 Claim Limitation(s)	Disclosures
	ABC123 and abc123, but it will preserve the cases in a filename—it will not map lowercase to uppercase.
	The names within a UNIX or Windows path can be any sequence of up to 255 characters excluding the separator slash. DOS clients are restricted in their choice of names to an '8.3' format: the name is limited to 8 characters plus a dot and an extension of up to 3 characters. In addition, the characters .,+[]*?:\/;=\leftrightarrow are ruled illegal. These restrictions can create problems for DOS clients that access files on a UNIX or Windows server. How can long names be represented in 8.3 format and what can be done about the characters that are legal for UNIX but illegal for DOS or Windows? The DOS client uses an algorithm to map UNIX names to DOS equivalents, as follows:

Patent No. 8,671,132 Claim Limitation(s)	Disclosures				
	<ol> <li>Lowercase case to low</li> <li>If the name then no fur</li> <li>If the NFS ragal), the exist the NFS ragal of the NFS ragal of the Section of the Sect</li></ol>	ercase: Abc123.txt be is now a legal DOS nother mapping is requirame has a legal DOS tension is preserved ame is truncated to lead ters are mapped to till it is extended to a full acter name is extended to COS characters that are directory (shown as X name had a valid DOS).	d to uppercase checomes aBC123. The ame and has no lared, extension (up to ave just the first 5 lde (~). If the name is 5 characters by the distriction of the section of t	to 3 characters, none ille- to 3 characters, none ille- to 5 characters, and illegal tame is shorter than 5 ty the addition of tildes. to 3 characters, and illegal tame is shorter than 5 ty the addition of tildes. to 3 characters, and illegal tame is shorter than 5 to 4 characters, and illegal tame is shorter than 5 to 4 characters, and illegal tame is shorter than 5 to 5 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 6 characters, and illegal tame is shorter than 5 to 7 characters, and illegal tame is shorter than 5 to 7 characters, and illegal tame is shorter than 5 to 8 charact	
	NFS name	DOS mapped name	Rules		
	abc123.txt	ABC123.TXT	2, 3	*	
	lengthyname CORE	LENGT~XX CORE	2, 5		
	core	CORE~~XX	2, 3 2, 5, 6	u 1	
	.cshrc	~CSHR~XX	2, 5, 6		
	whitepaper.ps	WHITE~XX.PS	2, 4, 5, 6, 7		
	index.html	INDEX~XX	2, 5, 6		
	challenge. The from one day t Whiteside (nov cookie value as The DOS-map mapped name,	two uniqueness clothe next, even if w Hummingbird, I ssociated with the ped name and the	haracters mus the client is r nc.) PCNFS c directory entr NFS name are nslate it to the	gh addition of XX characters presents an interesting ast not be randomly chosen because the name must persist rebooted and the mapping table is lost. The Beame and client solved the problem neatly by using the READDIR try as the basis for generating the XX characters.  The stored in a mapping table. If a user types a DOS-te NFS name via the mapping table before sending a at 379-381.	

Patent No. 8,671,132 Claim Limitation(s)	"14.2 File Attributes. DOS supports only a small set of file attributes compared with the POSIX set of 13 or so file attributes provided in the NFS fattr structure returned by the GETATTR request (Table 14.2). Some of the NFS attributes like file size and mtime have DOS equivalents. Others have no mapping or an indirect mapping."				
	DOS file attribute				
	File size  Modification time	size mtime			
	Read-only	Set if the write bit in the mode attribute is not set. The client needs to determine whether the user, group, or other write bit applies, depending on the file's owner and group. Server ACLs may make this determination unreliable. Reliable read-only indication can be returned by the NFS version 3 ACCESS procedure.			
	Hidden	If set, it indicates whether the file will appear in directory listings. The attribute is set if the NFS name begins with a dot, e.g., .login.			
	Archive	Used by DOS utilities to determine whether a file needs to be archived. The attribute is cleared (set to 0) when the file is archived and set back to 1 if the file is modified. Since there is no UNIX equivalent, it is set to 1 for all NFS files.			
	Directory	Set if the file mode attribute indicates that the file is a directory.			
	System	No NFS equivalent—not set.			
	MOCHA" ("Ro	tinez, "Automatic Deployment of Application-Specific Metadata and Code in driguez-Martinez")			
	states:	nez discloses translating the one or more attributes. For example, Rodriguez-Martine			

Patent No. 8,671,132	Disclosures
Claim Limitation(s)	Distivsuits
	"Database middleware systems, such as database gateways and mediator systems, are used to integrate heterogeneous data sources dispersed over a computer network. In order to achieve data integration, the middleware layer imposes a global data schema on top of the individual schema used by each source. Through this mechanism, the client applications been serviced by the middleware system are provided with a uniform view and uniform access interface to the data sets stored by each data source. The translation of the data items to the global schema is performed by either a wrapper or database gateway. Wrappers are used when integration is achieved through a mediator system, such as TSIMMIS [CGMH +94], DISCO [TRV96] or Garlic [RS97]. On the other hand, gateways are used when integration is realized by importing the data into a commercial DBMS, such as Oracle [Cor99] or Informix [Cor97]. Typically, these applications use a connectivity API such as ODBC or JDBC to extract the data from the sources. The wrapper or gateway can either be run on a machine near the data source (e.g. on the same Local Area Network) or at the site where the integration server runs." Rodriguez-Martinez at 1.
	"In order to access the wealth of information stored in a particular data source, the QPC connects to the Data Access Provider (DAP) associated with the source. The DAP is a server application which extracts data from a source on behalf of the QPC. For each data source, there is at least one DAP, and each DAP in the system can be located by QPC through a URL. There are two essential services provided by a DAP: a) data translation, and b) query execution. The DAP extracts requested items from the data source, and translates them from the local schema used by the source into the global schema used by QPC. Also, the DAP is capable of executing query operators that generate new abstractions from the data. In particular, the DAP is designed to execute those operators that filter out the data sets (e.g. a predicate) to produce smaller values. For this reason, the DAP should be run at the data source site or in close proximity to it (e.g. on another host in the same LAN). The QPC delivers all the code for the data types and operators used by each DAP. Similarly, all results produced by each DAP are sent to QPC for further processing until the final answer to the query is fabricated." Rodriguez-Martinez at 5.  "The first resources that must be made available to MOCHA are the tables to be used by the
	"The first resources that must be made available to MOCHA are the tables to be used by the application. For each table, metadata indicating its name, the database in which it is stored, the columns names and the middleware types needed to represent each column must be added to the

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