

Sling TV, L.L.C., et al. (Petitioners) v. Realtime Adaptive Streaming LLC (Patent Owner)

Demonstratives
Trial No. IPR2018-01342
U.S. Patent No. 8,934,535

Before Hon. Kevin W. Cherry, Garth D. Baer, and Nabeel U. Khan, Administrative Patent Judges



Background and Summary of Issues

- Construction of "Access Profile"
- Grounds 1 and 2: Dvir
 - Issue 1: Single Disclosure Demonstrates Anticipation
 - Issue 2: "Access Profiles"
 - Issue 3: "Compressors Using Asymmetric Data Compression"
 - Issue 4: "Data Block"
- Ground 3: Dvir and Ishii
 - Issue 1: Explicit and Art-Specific Motivations to Combine



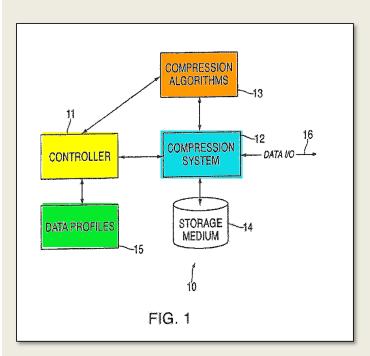
Summary of Grounds

Ground	Claims	Basis for Rejection
Ground 1	1, 2, 9, 10, 14	Anticipated by Dvir - 35 U.S.C. §
Ground 2	1, 2, 9, 10, 14	Obvious over Dvir - 35 U.S.C. § 1
Ground 3	3-6, 8, 11, 12	Obvious over Dvir in view of Ishii U.S.C. § 103



Alleged Innovation of the '535 Patent – Selecting Compression Algorithms Suitable for the Data Type

 The '535 Patent's controller (11) uses data profiles (15) having "access profiles" for selecting suitable compression algorithms for a particular data type



The controller 11 utilizes information comprising a pluity of data profiles 15 to determine which compression a rithms 13 should be used by the compression system 12. preferred embodiment, the compression algorithms 13 c prise one or more asymmetric algorithms. As noted ab with asymmetric algorithms, the compression ratio is t cally greater than the compression ratios obtained using s metrical algorithms. Preferably, a plurality of asymmetrical algorithms.

In a preferred embodiment, the overall throughput (be width) of the system 10 is one factor considered by the controller 11 in deciding whether to use an asymmetrical symmetrical compression algorithm for processing stored to, and retrieved from, the storage device 14. Anotactor that is used to determine the compression algorithm the type of data to be processed. In a preferred embodiment the data profiles 15 comprise information regarding predomined access profiles of different data sets, which enables controller 11 to select a suitable compression algorithm be on the data type. For instance, the data profiles may compare a map that associates different data types (based on, e.g., a extension) with preferred one(s) of the compression a rithms 13. For example, preferred access profiles considered



Alleged Innovation of the '535 Patent – Selecting Compression Algorithms Suitable for the Data Type

- The '535 Patent uses the "access profiles" to link the "data type the compression algorithm
- For example, the '535 Patent links "Data Types" with "Access F
 1" to an "Asymmetrical (Slow compression)" compression algor

In another aspect, a system for providing bandwidth sensitive data compression comprises a plurality of access profiles, operatively accessible by the controller that enables the controller to determine a compression routine that is associated with a data type of the data to be compressed. The access profiles comprise information that enables the controller to select a suitable compression algorithm that provides a desired balance between execution speed (rate of compression) and efficiency (compression ratio).

the type of data to be processed. In a preferred embodiment, the data profiles 15 comprise information regarding predetermined access profiles of different data sets, which enables the controller 11 to select a suitable compression algorithm based on the data type. For instance, the data profiles may comprise a map that associates different data types (based on, e.g., a file extension) with preferred one(s) of the compression algorithms 13. For example, preferred access profiles considered by the controller 11 are set forth in the following table.

Access Profile	Example Data Types	Compression Algorithm	Compressed Data Characteristics	Deco Algo
1. Write few, Read many	Operating systems, Programs, Web sites	(Slow compress)	Very high compression ratio	Asyn (Fast
2. Write many, Read few	Automatically updated inventory database	Asymmetrical (Fast compress)	Very high compression ratio	Asyn (Slov decor
3. Similar number of Reads and Writes	User generated documents	Symmetrical	Standard compression ratio	Symr

DISH1001, 8:4-12, 11:31-39, 12:50-60; Paper 2 (Petition



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