

## Petitioner's Demonstrative Slides

IPR2022-01227 (U.S. Pat. No. 9,762,636)

IPR2022-01228 (U.S. Pat. No. 9,742,824)

November 13, 2023



DEMONSTRATIVE EXHIBIT – NOT EVIDENCE

## Challenged Grounds

For both the '824 and '636 Patents:

GROUND	CLAIMS	BASIS	PRIOR ART
1	1-12	§ 103	Obvious over Carmel
2	1-12	§ 103	Obvious over Carmel and Sh

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## Issues for Oral Hearing

### ➤ POSITA

- Petitioner's definition should apply, as Patent Owner's POSITA definition is contradicts prior agreed definition

### ➤ Claim Construction

- Plain and ordinary meaning of terms should apply, Patent Owner does not constructions and arguments are unsupported by the record

### ➤ Ground 1 – Disputed 1.h, 1.j, 1.k Limitations

- Carmel renders obvious claims 1-12 of the '824 and '636 Patents

### ➤ Ground 2 – Disputed 1.h, 1.j, 1.k Limitations

- Carmel and Shteyn renders obvious claims 1-12 of the '824 and '636 Patents

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# U.S. Patent No. 9,742,824

DEMONSTRATIVE EXHIBIT – NOT EVIDENCE

# U.S. Patent No. 9,762,824 – Streaming Media Delivery System



(10) Patent No.: US 9,742,824 B2  
(45) Date of Patent: \*Aug. 22, 2017

(58) **Field of Classification Search**  
CPC: 11041, 65/4076; 11041, 65/80; 11041, 65/4084

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,001,690	A	1/1977	Mack et al.
4,077,327	A	5/1977	de Looze et al.

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2247588	1/2004
EP	0614317	9/1994

(Continued)

#### OTHER PUBLICATIONS

A. Periyannan; "Delivering Media Generically over RTP"; Mar. 13, 2000.

(Continued)

Primary Examiner — Joseph E. Avellino

(74) *Attorney, Agent, or Firm* — Ernest D. Buff; Ernest D. Buff & Associates, LLC

(57) **ABSTRACT**  
Streaming media, such as audio or video files, is sent via the Internet. The media are immediately played on a user's

computer. Audio/video data is transmitted from the server under control of a transport mechanism. A server buffer is prefilled with a predetermined amount of the audio/video data. When the transport mechanism requests data to be sent

data, when the transport mechanism causes data to be sent to the user's computer, it is sent more rapidly than it is played out by the user system. The audio/video data in the user buffer accumulates; and interruptions in playback as well as temporary modem delays are avoided.



The present invention relates to multimedia communication systems; and more particularly, to systems and methods for delivering streaming media, such as audio and video, on the Internet.

In another embodiment, the server is connected to the Internet and provisioned as initially described. The buffer manager, or the media source, provides for sequential numbering of the media data elements. The server manager does not maintain a pointer into the server buffer for each user. Instead, the media player buffer manager on the user computer maintains a record of the serial number of the last data element that has been received.

Via the use of standard data communications protocols and techniques such as TCP, the user computer transmits a request to the server to send one or more data elements specifying the serial numbers of the data elements. The server responds by sending the requested data elements. This depends upon the reliable transmission protocol to a successful delivery. The user computer then continues with additional data requests for the duration of playing the audio/video material. In this manner, the user computer, not the server, maintains the record of the highest data element number stored in the user computer buffer. The media data will be transmitted to the user computer as fast as the data correlation between the user computer and the server will allow.

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