

EXHIBIT 27

AMENDMENT UNDER 37 C.F.R. § 1.116
Appln. No.: 17/493,490

Docket No.: 100720-00003

AMENDMENTS TO THE CLAIMS

1. through 20. (canceled).

21. (previously presented) A method of providing a media stream from a computing system comprising a caching unit and at least one multicasting server, the method comprising:

receiving, at the caching unit, a request from the at least one multicasting server for at least one media stream for playback on a broadcast media channel, wherein the request comprises a requested format;

obtaining, at the caching unit, content from the internet corresponding to a plurality of multimedia items from at least one website offering the content in at least one first format, wherein the obtaining comprises:

retrieving, for each multimedia item of the plurality of multimedia items, at least one audio file corresponding to an audio component of the multimedia item and a plurality of screen captures corresponding to a video component of the multimedia item; rendering a webpage by a browser using the content; generating a plurality of screen captures of the rendered web page using a headless rendering engine;

generating, at the caching unit, the plurality of multimedia items in the requested format based on the content from the internet, the generating comprising, for each of the plurality of multimedia items:

assembling a video component of a multimedia item using the plurality of screen captures,

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combining the plurality of screen captures and the at least one audio file, thereby creating the multimedia item, and

saving the multimedia item at the caching unit;

providing at least one media stream to a content provider for multicasting on the broadcast media channel, wherein the providing comprises:

assembling the at least one media stream in the requested format using the plurality of the multimedia items saved at the caching unit;

detecting a change at the at least one website corresponding to at least one of the plurality of multimedia items saved at the caching unit;

in response to the detecting the change, retrieving a new plurality of screen captures from the at least one website for the at least one of the plurality of multimedia items; and

reassembling the at least one of the plurality of multimedia items using the new plurality of screen captures, thereby creating at least one updated multimedia item.

22. (previously presented) The method according to claim 21, wherein the retrieving the plurality of screen captures corresponding to the video component of the multimedia item comprises obtaining the plurality of screen captures from a playback of a video on the at least one website.

23. (previously presented) The method according to claim 21, further comprising: adding metadata to the at least one media stream as a program identifier (PID) in a Moving Picture Experts Group (MPEG) transport stream.

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24. (previously presented) The method according to claim 21, wherein the content provider is one of a cable television operator and a satellite television operator.

25. (previously presented) The method according to claim 21, wherein the providing at least one media stream to the content provider comprises streaming the at least one media stream to a Moving Picture Experts Group (MPEG) multiplexer associated with the content provider.

26. (previously presented) The method according to one of claims 21-25, further comprising:

performing a recording function at the at least one multicasting server, wherein the recording function records the at least one media stream.

27. (previously presented) The method according to claim 26, further comprising:
checking whether the caching unit is operational; and
upon a determination that the caching unit is not operational, multicasting a pre-recorded media stream.

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28. (previously presented) A system comprising:

a caching unit comprising at least one processor;

at least one multicasting server;

a computer-readable storage medium having stored thereon instructions which, when executed by the at least one processor, cause the system to perform a method comprising:

receiving, at the caching unit, a request from the at least one multicasting server for at least one media stream for playback on a broadcast media channel, wherein the request comprises a requested format;

obtaining, at the caching unit, content from the internet corresponding to a plurality of multimedia items from at least one website offering the content in at least one first format, wherein the obtaining comprises:

retrieving, for each multimedia item of the plurality of multimedia items, at least one audio file corresponding to an audio component of the multimedia item and a plurality of screen captures corresponding to a video component of the multimedia item;

rendering a webpage by a browser using the content;

generating a plurality of screen captures of the rendered web page using a headless rendering engine;

generating, at the caching unit, the plurality of multimedia items in the requested format based on the content from the internet, the generating comprising, for each of the plurality of multimedia items:

assembling a video component of a multimedia item using the plurality of screen captures,

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combining the plurality of screen captures and the at least one audio file,
thereby creating the multimedia item, and
saving the multimedia item at the caching unit;
providing at least one media stream to a content provider for multicasting on the
broadcast media channel, wherein the providing comprises:
assembling the at least one media stream in the requested format using the
plurality of the multimedia items saved at the caching unit;
detecting a change at the at least one website corresponding to at least one of the
plurality of multimedia items saved at the caching unit;
in response to the detecting the change, retrieving a new plurality of screen
captures from the at least one website for the at least one of the plurality of multimedia
items; and
reassembling the at least one of the plurality of multimedia items using the new
plurality of screen captures, thereby creating at least one updated multimedia item.

29. (new) The method according to claim 21, wherein the headless rendering engine is a
browser rendering engine compatible with HTML.

30. (new) The method according to claim 21, wherein the generating a plurality of
screen captures comprises generating the plurality of screen captures at one of a laptop, a smart
phone, a personal computer, and a personal digital assistant.

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31. (new) The method according to claim 21, further comprising, at the caching unit, encoding the at least one audio file using AC-3.

32. (new) The method according to claim 21, further comprising, at the caching unit, encoding the video component using H.264.

33. (new) The method according to claim 21, wherein the combining the plurality of screen captures and the at least one audio file comprises one of creating an overlapping video and replacing video in a multimedia item playlist.

34. (new) The method according to claim 21, wherein the at least one multimedia stream is formatted according to one of HTTP Live Streaming, HTTP, and RTSP.

35. (new) The method according to claim 21, wherein the request for the at least one media stream for playback comprises a GetPlaylist command via an HTTP Request.

36. (new) The method according to claim 21, wherein the at least one website comprises at least one of javascript and Cascading Style Sheets (CSS).

37. (new) The method according to claim 21, wherein the obtaining further comprises the caching unit using Javascript Object Notation (JSON) available via an HTTP Request.

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38. (new) The method according to claim 21, further comprising encoding the plurality of multimedia items and plotting a status of the plurality of multimedia items using a graphical user interface.

39. (new) The system according to claim 28, wherein the generating the plurality of screen captures comprises obtaining the plurality of screen captures from a playback of a video on the rendered web page.

40. (new) The system according to claim 28, wherein the providing the at least one media stream further comprises adding metadata to the at least one media stream as an additional Program Identifier (PID) in an MPEG transport stream.

41. (new) The system according to claim 28, wherein the content provider is one of a cable television operator and a satellite television operator.

42. (new) The system according to claim 28, wherein the providing the at least one media stream to the content provider further comprises providing the at least one media stream to an MPEG multiplexer associated with the content provider.

43. (new) The system according to claim 28, further comprising:
the at least one multicasting server performing a recording function recording the at least one media stream.

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44. (new) The system according to claim 28, further comprising:

determining whether the caching unit is operational, and, upon a determination that the caching unit is not operational, multicasting a pre-recorded media stream.

45. (new) The system according to claim 28, wherein the headless rendering engine is a browser-rendering engine compatible with HTML.

46. (new) The system according to claim 28, wherein the generating the plurality of screen captures comprises generating the plurality of screen captures at one of a laptop, a smart phone, a personal computer, and a personal digital assistant.

47. (new) The system according to claim 28, further comprising, at the caching unit, encoding the at least one audio file using one of AC-3 and MP3.

48. (new) The method according to claim 28, further comprising, at the caching unit, encoding the video component using one of H.264 and MPEGVIDEO.

49. (new) The method according to claim 28, wherein the request for the at least one media stream for playback comprises a GetPlaylist command via an HTTP Request.

50. (new) The method according to claim 28, wherein the retrieving comprises retrieving using one of HTTP Live Streaming, HTTP, and RTSP.

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51. (new) The method according to claim 28, wherein the at least one website comprises at least one of javascript and Cascading Style Sheets (CSS).

52. (new) The method according to claim 28, wherein the plurality of multimedia items are encoded using one of MPEG4 Part 14 and MPEG TS.

53. (new) The method according to claim 28, wherein the combining the plurality of screen captures and the at least one audio file comprises one of creating an overlapping video and replacing video in a multimedia item playlist.

54. (new) The method according to claim 28, wherein the computer-readable storage medium is one of random access memory (RAM), a solid state drive, and a hybrid drive.