

ABSTRACT OF THE DISCLOSURE

A storage device includes: a non-volatile memory including a first memory area and a second memory area, and a memory controller configured to receive a request from a first client
5 device to upload a first multimedia file, generate a second multimedia file including a base layer and at least one enhancement layer by transcoding the first multimedia file from an original format to a scalable format, and control the non-volatile memory to store the second multimedia file in the non-volatile memory.

10 FIG. 12