(19) **United States**

(12) **Patent Application Publication** (10) Pub. No.: **US 2024/0214355 A1**
Sanders (43) **Pub. Date:** **Jun. 27, 2024**

(54) **PROXY SERVER WITH DYNAMIC MEMORY BUFFER**

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(21) Appl. No.: **18/145,099**

(22) Filed: **Dec. 22, 2022**

Publication Classification

(51) **Int. Cl.**
    H04L 9/40   (2006.01)

(52) **U.S. Cl.**
    CPC *H04L 63/0281* (2013.01); *H04L 63/0236* (2013.01)

(57) **ABSTRACT**

Aspects of this disclosure improve modification of requested web content by utilizing an expanded memory buffer of a proxy server. A method may include receiving, by a proxy, web content requested by an application of a user device; initializing, by the proxy, a memory buffer of a first size to store a header of the web content; determining, by the proxy, a set of filtering rules associated with the user of the user device; determining, by the proxy, modified web content in accordance with the set of filtering rules, wherein the determining comprises, when the filtering rules specify modification of body content of the web content, performing operations comprising: expanding the memory buffer to a second size larger than the first size. Other aspects are also disclosed.