

Title (en)  
LUMINANCE ADJUSTMENT BASED ON VIEWER ADAPTATION STATE

Title (de)  
LUMINANZANPASSUNG BASIEREND AUF DEM ZUSCHAUERADAPTIONSZUSTAND

Title (fr)  
RÉGLAGE DE LUMINANCE BASÉ SUR UN ÉTAT D'ADAPTATION DE SPECTATEUR

Publication  
**EP 4315232 A1 20240207 (EN)**

Application  
**EP 22710270 A 20220302**

Priority

- EP 21163880 A 20210322
- US 202163164165 P 20210322
- US 2022018547 W 20220302

Abstract (en)  
[origin: WO2022203826A1] A video delivery system for luminance adjustment based upon a viewer adaptation state comprises a processor configured to: receive a source image including a current image frame including metadata corresponding to a mean luminance value of the current image frame, and the source image including an upcoming image frame including metadata corresponding to a mean luminance value of the upcoming image frame. The processor is configured to determine an ambient luminance value based on an ambient luminance, determine an incident luminance value based on the ambient luminance value and the mean luminance value, determine a difference between a current pupil size and a target pupil size, and generate an output image by modifying the source image based on a luminance adjustment factor, the luminance adjustment factor being a function of the difference between the current pupil size and the target pupil size.

IPC 8 full level  
**G06T 5/00** (2024.01); **H04N 1/407** (2006.01); **H04N 1/60** (2006.01); **H04N 1/62** (2006.01); **H04N 19/98** (2014.01)

CPC (source: EP US)  
**G06T 5/92** (2024.01 - US); **H04N 1/6086** (2013.01 - EP); **H04N 1/6088** (2013.01 - EP); **H04N 19/98** (2014.11 - EP); **H04N 21/44218** (2013.01 - US); **H04N 21/4854** (2013.01 - US); **G06T 2207/10016** (2013.01 - US); **H04N 1/407** (2013.01 - EP); **H04N 1/6027** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

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**US 2022018547 W 20220302**; EP 22710270 A 20220302; JP 2023558123 A 20220302; US 202218281295 A 20220302