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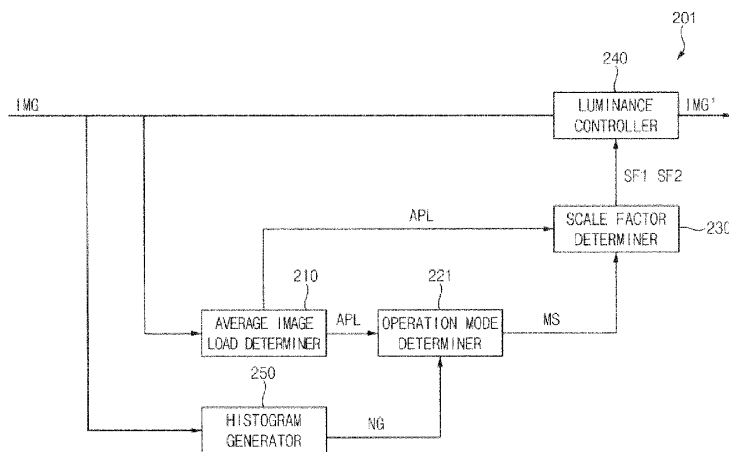
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(54) **DISPLAY DEVICE**

(57) A display device includes a display panel and a display panel driver. The display panel includes pixels. The display panel driver determines (210) an average image load (APL) of input image data (IMG), determines (221) an operation mode (MS) based on a grayscale value of the input image data and the average image load

as a first operation mode or a second operation mode, applies (240) a first scale factor (SF1) to the input image data in the first operation mode, applies a second scale factor (SF2) different from the first scale factor to the input image data in the second operation mode, and drives the display panel.

FIG. 2



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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 July 2023	Examiner Pichon, Jean-Michel
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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Place of search The Hague		Date of completion of the search 5 July 2023	Examiner Pichon, Jean-Michel
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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1-10

the operation mode is further based on a grayscale value of the input image data in order to reduce the power consumption

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2. claims: 11-15

the operation mode is based on a temperature of the display panel in order to prevent an overheating

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ANNEX TO THE EUROPEAN SEARCH REPORT
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