

Title (en)
A direct-view display

Title (de)
Direktansichtsanzeige

Title (fr)
Écran à vue directe

Publication
EP 2402934 A3 20121017 (EN)

Application
EP 11178533 A 20061219

Priority
• EP 06847859 A 20061219
• US 75190905 P 20051219
• US 36129406 A 20060223
• US 77636706 P 20060224

Abstract (en)
[origin: EP2402934A2] A direct-view display comprises a transparent substrate and an array of MEMS light modulators formed on the transparent substrate, wherein each of the light modulators can be driven into at least two states. A control matrix is formed on the transparent substrate for transmitting data and actuation voltages to the array. A controller controls the states of each of the light modulators in the array. The controller obtains a plurality of subframe data sets from a memory, wherein the plurality of sub-frame data sets correspond to an image frame, each sub-frame data set is associated with a coded weight, and each sub-frame data set indicates desired states of light modulators in multiple rows and multiple columns of the array. The controller outputs the plurality of sub-frame data sets according to an output sequence, stored at least partially in memory, to drive light modulators into the states indicated in the sub-frame data sets; and controls illumination of each of the respective sub-frame data sets of the plurality of sub-frame data sets based on the coded weight associated with the respective sub-frame data set.

IPC 8 full level
G09G 3/34 (2006.01)

CPC (source: EP)
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Citation (search report)
• [X] EP 0889458 A2 19990107 - SONY CORP [JP]
• [X] EP 1202244 A1 20020502 - MITSUBISHI ELECTRIC CORP [JP]
• [A] EP 1091343 A2 20010411 - AGILENT TECHNOLOGIES INC [US]
• [XA] EP 1091342 A2 20010411 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by
CN113539191A; WO2014182809A3

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

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