

Title (en)  
INTERFACE, FOR EXAMPLE FOR A LIQUID CRYSTAL DISPLAY DEVICE

Publication  
**EP 0244978 B1 19921104 (EN)**

Application  
**EP 87303469 A 19870421**

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Abstract (en)  
[origin: EP0244978A2] An interface for converting separate video signals into a display data signal and a timing signal for operating a thin display panel comprises a timing circuit (101, 102, 103) for taking a timing so as to introduce effective display data into a data treating circuit (105) according to a synchronizing signal (Hsync), a data treating circuit (105) for generating desired data for a thin display panel using the display data, and a timing signal generating circuit (104) for generating timing signals necessary for operating a driver of the thin display panel.

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**G06F 3/147**; **G09G 3/36**

IPC 8 full level  
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Citation (examination)  
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS vol. CE-28, no. 3, August 1982, pages 196-200, New York, US; T. FUJII et al.: "Dot Matrix LCD-module for graphic display (64 x 320 dots)"

Cited by  
US5491496A; US5218274A; FR2755786A1; US5856816A; EP0432798A3; US5164970A; US5270696A; CN107507584A; GB2364844A; GB2364844B; US5227790A; EP0497378A3; EP0930604A1; FR2773631A1; EP0359234A3; US5508714A; US10643559B2; WO2019037168A1; EP0406900A3; US5274366A; US5293485A; EP3358561A1; CN108461061A; US10593248B2

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