

US005841431A

**Patent Number:** 

[11]

## United States Patent [19]

[54] APPLICATION OF SPLIT- AND DUAL-SCREEN LCD PANEL DESIGN IN

[75] Inventor: Charles Russell Simmers, Phoenix,

[73] Assignee: Intel Corporation, Santa Clara, Calif.

345/104, 98, 100, 131, 156, 173; D14/137,

428, 440; 395/750, 750.04; 455/556, 566,

138; 364/705.05, 707, 708.1; 379/433,

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Nov. 15, 1996

**CELLULAR PHONES** 

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[22] Filed:

[56]

## Simmers [45] Date of Patent:

G06F 1/00; G06F 1/16

364/707; 364/708.1

574, 575, 89, 90

D14/138

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Zafman

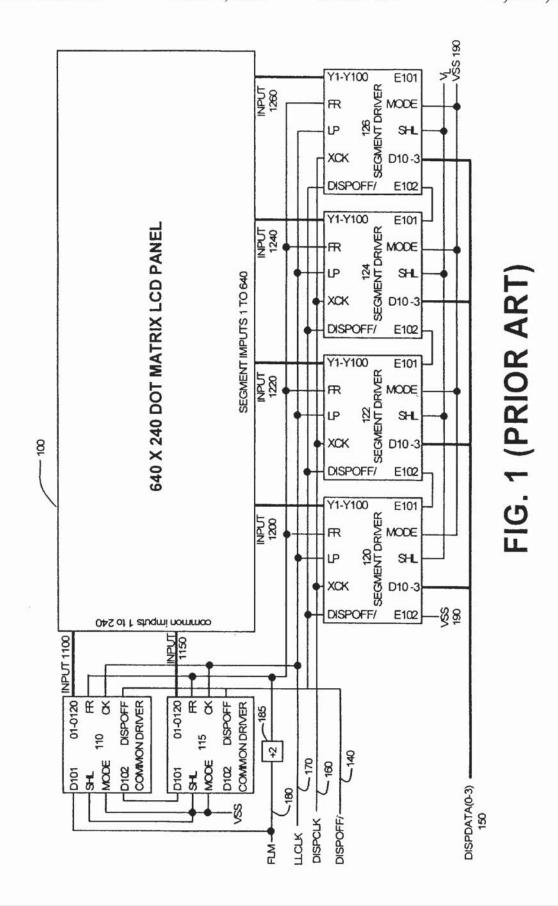
#### [57] ABSTRACT

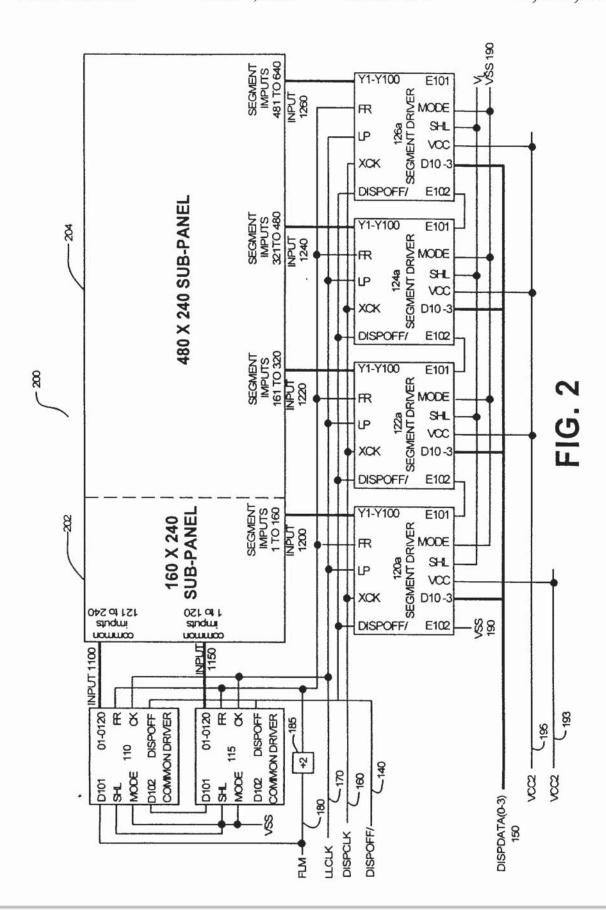
An apparatus for conserving power in information devices with dual functions. A single display panel is logically split into two sub-panels. Each sub-panel can be powered up or down separately as is required by the function of the device. The display panel has a plurality of improved segment drivers which are provided power signals enabling the set of segment drivers corresponding to a sub-panel to be separately powered. In systems with two separate display panels, each of the panels may be powered up or down by the use of similar improved segment drivers as necessary.

#### 11 Claims, 6 Drawing Sheets

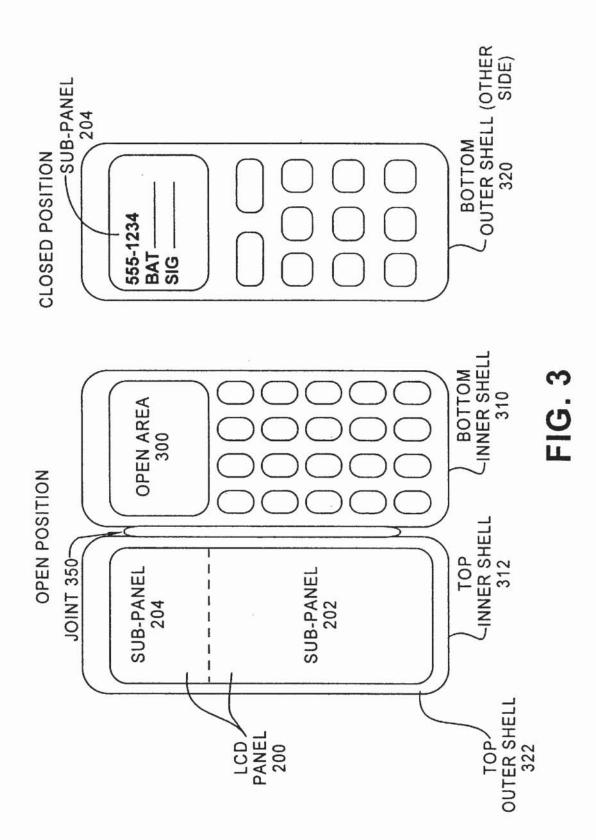
D. 370,673	6/1996 нарро еt al D14/138	11 Claims, 6 Drawing Sneets
	SHARED MEMORY 510	DATA PRIMARY
HOST	ADDRESS BUS 524 LCD DISPLA CONTROL CONTROL BUS 528 BUS CONTROL HANDSHAKE(REQUEST/GRANT) 529	Y CONTROL PANEL
		SELECTER LINE 562 POWER CONTROL BLOCK 560

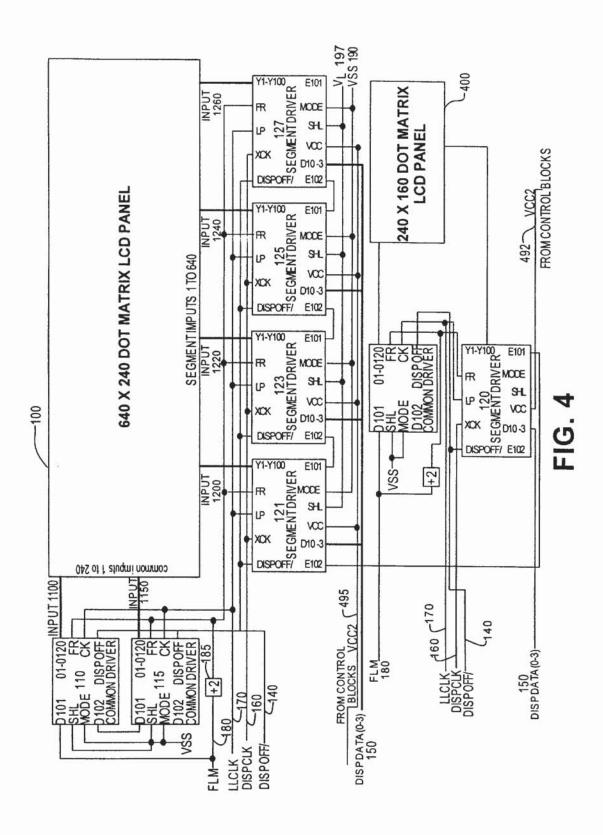
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