

Title (en)  
Image information control apparatus and display system

Title (de)  
Bildinformationssteuergerät und Anzeigesystem

Title (fr)  
Appareil de commande d'information d'image et système d'affichage

Publication  
**EP 0464620 B1 19961120 (EN)**

Application  
**EP 91110530 A 19910626**

Priority  
JP 17110290 A 19900627

Abstract (en)  
[origin: EP0464620A2] An image information control apparatus includes a partial write detector having at least two types of memory units for detecting and storing addresses accessed to a VRAM in units of lines in a scanning direction, thereby repeating the detection and the storage at different cycles, a circuit for performing calculations to recognize partial write information from contents of each of the memory units, memory units for storing the respective calculation results, a circuit for comparing the memory contents to determine a size relationship between partial write areas, a partial write ID signal controller for controlling a partial write ID signal on the basis of the size relationship between partial write areas and externally outputting the signal, and a circuit for, even when partial writing is being executed, forcibly interrupting the partial writing in accordance with a state of an external refresh control signal, starting refresh, and restarting the partial writing in accordance with a partial write state and a change in state of the refresh control signal. <IMAGE>

IPC 1-7  
**G09G 3/36**

IPC 8 full level  
**G02F 1/133** (2006.01); **G09G 3/36** (2006.01)

CPC (source: EP KR)  
**G09G 3/00** (2013.01 - KR); **G09G 3/3629** (2013.01 - EP); **G09G 3/3651** (2013.01 - EP); **G09G 2310/04** (2013.01 - EP)

Cited by  
CN102737589A; AU672648B2; EP0573822A1; US5929831A; EP0573821A1; US5926159A; EP0558342A1; US5717420A; EP0608053A3; US5844532A; EP0608056A1; US5576731A

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0464620 A2 19920108; EP 0464620 A3 19921223; EP 0464620 B1 19961120**; AT E145492 T1 19961215; DE 69123182 D1 19970102; DE 69123182 T2 19970424; JP 2840398 B2 19981224; JP H0458221 A 19920225; KR 920001418 A 19920130; KR 950012016 B1 19951013

DOCDB simple family (application)  
**EP 91110530 A 19910626**; AT 91110530 T 19910626; DE 69123182 T 19910626; JP 17110290 A 19900627; KR 910010799 A 19910627