Title (en)

LCD DISPLAY WITH FAILURE CONTROL

Title (de)

LCD-DISPLAY MIT AUSFALLKONTROLLE

Title (fr)

AFFICHAGE A CRISTAUX LIQUIDES PERMETTANT UN CONTROLE DES DEFAILLANCES

Publication

EP 1112529 A1 20010704 (DE)

Application

EP 99968725 A 19990904

Priority

• DE 19840952 A 19980908
• EP 9906523 W 19990904

Abstract (en)

[origin: US6927749B1] Liquid crystal display with conductive segments for representing symbols which also has at least one inverse segment that fills at least in part the display area that is not covered by the remaining segments. This liquid crystal display allows a simple, visual detection of faulty segments. For this purpose a check is carried out in which all segments and all existing inverse segments are activated which results in a homogenous image when the display is completely functional or the faulty segments are inversely displayed in relation to the remaining display surfaces.

IPC 1-7

G02F 1/1343; G09F 9/30; G02F 1/13

IPC 8 full level

G02F 1/13 (2006.01); **G02F 1/1343** (2006.01); **G09F 9/00** (2006.01); **G09F 9/30** (2006.01); **G09F 9/35** (2006.01); **G09G 3/04** (2006.01); **G09G 3/18** (2006.01)

CPC (source: EP US)

G09G 3/18 (2013.01 - EP US); G09G 2330/08 (2013.01 - EP US); G09G 2330/12 (2013.01 - EP US)

Citation (search report)

See references of WO 0014599A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6927749 B1 20050809; AT E217423 T1 20020515; DE 19840952 C1 20000323; DE 59901417 D1 20020613; EP 1112529 A1 20010704; EP 1112529 B1 20020508; ES 2177348 T3 20021201; JP 2002524773 A 20020806; JP 2010286839 A 20101224; JP 4808314 B2 20111102; JP 4967047 B2 20120704; WO 0014599 A1 20000316

DOCDB simple family (application)

US 78656301 A 20010626; AT 99968725 T 19990904; DE 19840952 A 19980908; DE 59901417 T 19990904; EP 9906523 W 19990904; EP 99968725 A 19990904; ES 99968725 T 19990904; JP 2000569283 A 19990904; JP 2010158850 A 20100713