

Title (en)

PROJECTION TELEVISIONS WITH MIRRORS INCIDENT ON HOLOGRAPHIC SCREENS

Title (de)

PROJEKTION VON FERNSEHBILDERN MIT SPIEGELN AUF HOLOGRAFISCHE SCHIRME

Title (fr)

TELEVISEURS A PROJECTION, A MIROIRS INCIDENTS SUR DES ECRANS HOLOGRAPHIQUES

Publication

EP 1051860 A1 20001115 (EN)

Application

EP 98906041 A 19980129

Priority

US 9801737 W 19980129

Abstract (en)

[origin: WO9939514A1] A projection television (10) has a screen (22) with a three-dimensional hologram (26) on a film substrate (24) for collecting light over a range of incident angles and redirecting the light more nearly forward. Vertical and horizontal holograms which can have varying gain across a horizontal viewing span of +/- 40 DEG and a vertical viewing span of +/- 20 DEG can be stacked. Image projection tubes (14, 16, 18) project an image onto at least one mirror (20) that reflects the image along an optical path that converges at an angle of projection, phi , between about 0 DEG and 30 DEG relative to an axis orthogonal to the screen. Each tube (14, 16, 18) can have a separate mirror. The hologram (26) redirects the images reflected to an angle of display relative to the orthogonal axis of the screen of from 0 to 5 DEG . The hologram (26) also forms an interference pattern effective to minimize color shift that otherwise occurs in displayed images due to off axis projection, achieving a color shift between two and five for angles of incidence between about 0 DEG and 30 DEG .

IPC 1-7

H04N 9/31; G03B 21/62; G02B 5/32

IPC 8 full level

G02B 5/32 (2006.01); **G03B 21/56** (2006.01); **G03B 21/62** (2006.01); **H04N 9/31** (2006.01)

CPC (source: EP KR)

G02B 5/32 (2013.01 - EP); **G03B 21/567** (2013.01 - EP); **G03B 21/62** (2013.01 - EP); **H04N 9/31** (2013.01 - EP KR)

Citation (search report)

See references of WO 9939514A1

Cited by

CN109814082A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9939514 A1 19990805; AU 6137698 A 19990816; CN 1183773 C 20050105; CN 1284239 A 20010214; EP 1051860 A1 20001115;
JP 2002502200 A 20020122; JP 3897980 B2 20070328; KR 100544834 B1 20060124; KR 20010040483 A 20010515

DOCDB simple family (application)

US 9801737 W 19980129; AU 6137698 A 19980129; CN 98813398 A 19980129; EP 98906041 A 19980129; JP 2000529846 A 19980129;
KR 20007008339 A 20000729