

9612133-8



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

H04N 9/72

A1

(11) International Publication Number:

WO 95/35629

(43) International Publication Date:

28 December 1995 (28.12.95)

(21) International Application Number:

PCT/US95/06862

(22) International Filing Date:

30 May 1995 (30.05.95)

(30) Priority Data:

261,679

17 June 1994 (17.06.94)

US

(71) Applicant: THOMSON CONSUMER ELECTRONICS, INC.
[US/US]; 10330 North Meridian Street, Indianapolis, IN
46290-1024 (US).(72) Inventor: GRIEPENTROG, Dal, Frank; 5204 Mosswood
Court, Indianapolis, IN 46254 (US).(74) Agents: TRIPOLI, Joseph, S. et al.; GE & RCA Licensing
Management Operation, Inc., CN 5312, Princeton, NJ 08540
(US).(81) Designated States: CA, CN, JP, KR, MX, RU, SG, VN,
European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

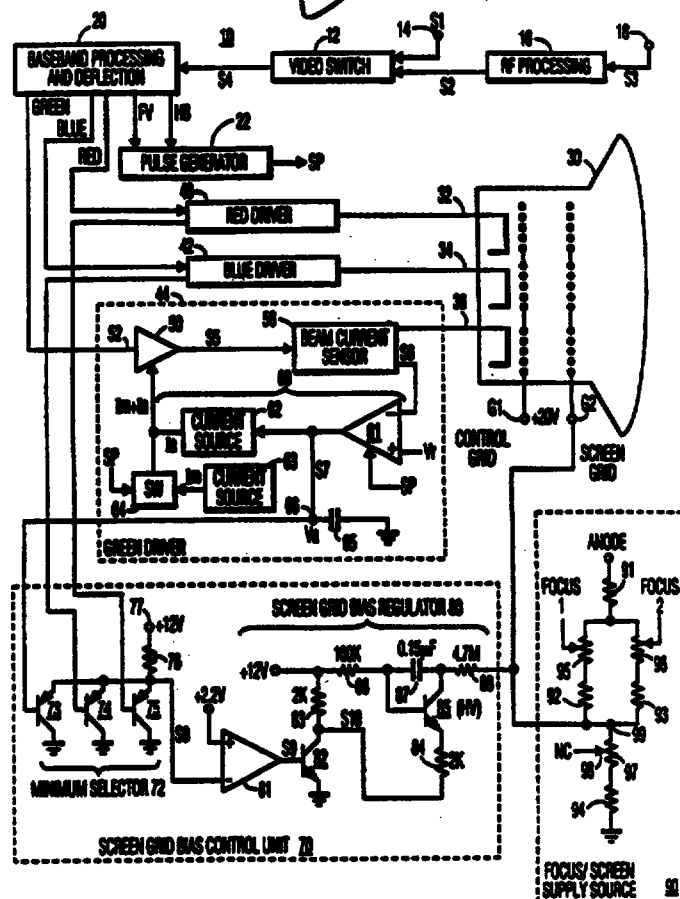
Before the expiration of the time limit for amending the
claims and to be republished in the event of the receipt of
amendments.

RTMP

(54) Title: VIDEO DISPLAY SYSTEM WITH AKB RESPONSIVE SCREEN GRID SUPPLY

(57) Abstract

Video signals to be displayed are applied via a video driver amplifier (50) to the cathode electrode (32, 34, 36) of a kinescope (30). A beam current sensor (56), also coupled to the cathode electrode (32, 34, 36), provides a beam current indicating signal (S6). An AKB regulator (60), responsive to the beam current indicating signal (S6), supplies a black level correction signal (Ia) to the driver amplifier (50) for regulating the black level of images displayed by the kinescope (30). A screen grid supply system (70, 90) is provided for controlling the G-2 (screen grid) voltage of the kinescope (30) as a predetermined function of the black level correction signal (Ia) thereby forming with the AKB regulator (60) a dual feedback loop for providing black level regulation by both the driver amplifier (50) and the screen grid (G2) thereby maximizing or extending the overall black level control range. Consequently, the high voltage screen control potentiometer (97) normally required for setting screen grid bias may be completely eliminated if desired, or, in applications where it is retained, no adjustments are required subsequent to an initial adjustment.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				

9612153-8