



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

H03K 19/177

A1

(11) International Publication Number:

WO 96/10295

(43) International Publication Date:

4 April 1996 (04.04.96)

(21) International Application Number:

PCT/IB95/00716

(22) International Filing Date:

30 August 1995 (30.08.95)

(30) Priority Data:

08/311,793

26 September 1994 (26.09.94)

US

(71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 5, Kista, S-164 85 Stockholm (SE).

(72) Inventor: CLINE, Ronald, Lee; 1503 Eagle Ridge Road N.E., Albuquerque, NM 87113 (US).

(74) Agent: VERDONK, Peter, Lambert, Frans, Maria; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).

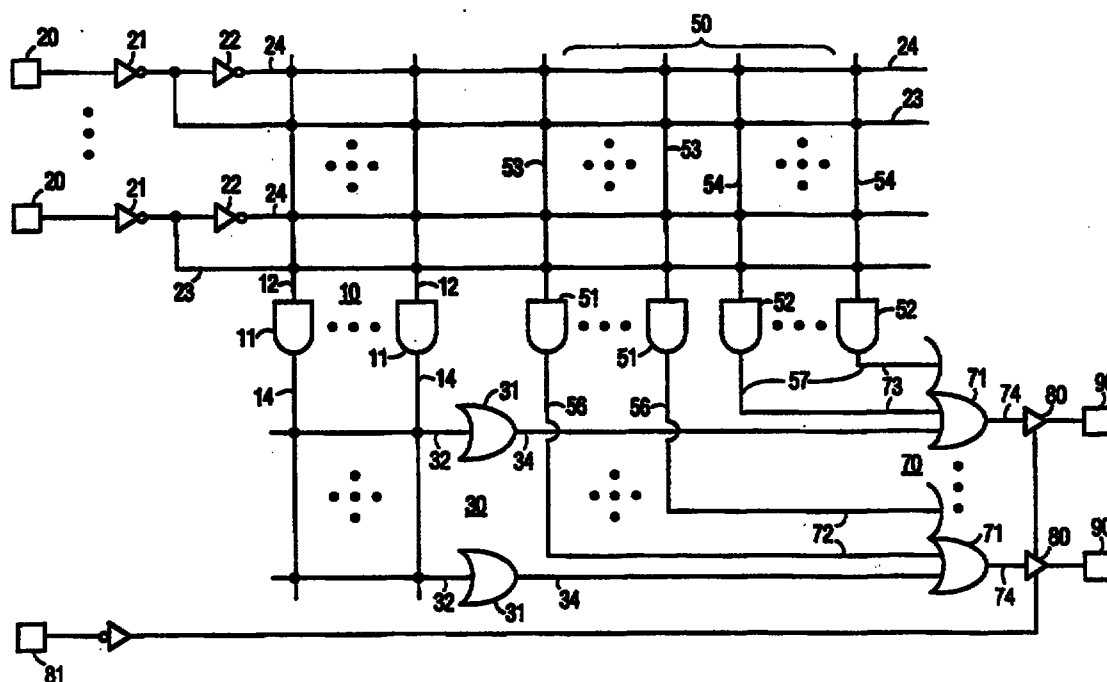
(81) Designated States: JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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.

(54) Title: COMBINED PROGRAMMABLE LOGIC ARRAY AND ARRAY LOGIC



(57) Abstract

A PLD comprises a programmable first AND array whose inputs are selectively connectable to input lines and whose outputs are selectively connectable to a programmable second OR array. The PLD further comprises a programmable third AND array whose inputs are selectively connectable to the input lines, and whose outputs are fixedly connected to inputs of a fixed fourth OR array. The outputs from the second OR array are also connected in a fixed manner to the fourth OR array. This arrangement overcomes some of the weaknesses in both the conventional PAL and PLA architectures while retaining most of their strengths.

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				

970 1501 - 0