©

2*013*

Da)

000*0*

*XOR*

XNO*R*

LAB | G EIG = A. B' looo 11 = (A'+B)'

= *((*A+A)'+B) ILIO I E = A'B' + A.B

*= (A+B*)' + (A'+B')' = (((A+B)' +((A-A+(8+8)*)) })*

-

G

DooDoE

FDG

**AE**

**ENA*BL*E**

**B**

A>B

***A*TA** GUST-A<B

**KAD**

**AzA** GJATA GP, **Bz-B** ---

BB **1-EN E**

**EN EF**

TEN

E

**- A=B**

8000000 xx--0--\*\*

0-0---xx00-000xx sooo 0 0 0XX000--0xx

Next State

ONONNNXX-Mtn-xx

***KAMA***

100-0-0-0-0-0-0-0

-00--00--00 - - ooOOO----o00o----|

Jo

I Input This State |

**"1101**

0000 000 0--------

IQz

O OA

ooooo oo ooo

DO*O*

IQz

ofoxlxjo spo

Do

IQ, 00 Ö Ö *Ö*

az OIO XX *TI*MA*XX*

*T*OH

D2 = I.Qz. Qö + I. Q,.Q DI = I'. Q, + I'. Q. + I. Q, . Qó DO = I. Q*1* + IQ60

Input I Qz | Q, I'Q. | Next State 1. Dz

Tito

2

8100-0

11010 If the circuit starts in one of the unassigned

states, it will fall into one of the Khown states straight away. The circuity will, however, think it is part way through the sequence untess some kind of reset is added.

e)

0 = Qz: QQ.