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SUM of PRODUCTS

Map

	$\overline{\mathrm{C.D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	C.D	$C.\overline{D}$
$\overline{A}.\overline{B}$	0	0	0	0
$\overline{\mathbf{A}}.\mathbf{B}$	0	1	1	1
A.B	0	1	1	1
$A.\overline{B}$	1	0	0	0

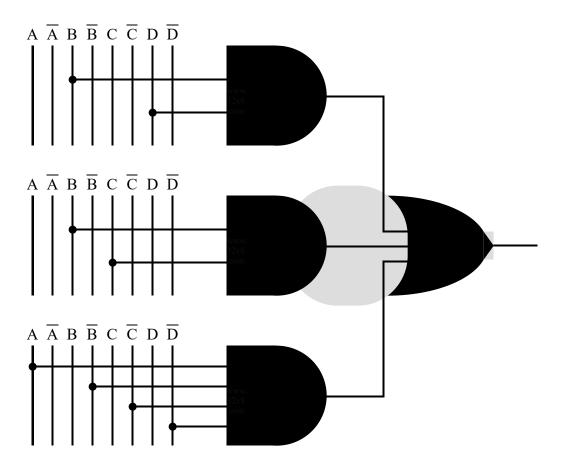
Map Layout

	$\overline{\mathrm{C}}.\overline{\mathrm{D}}$	$\overline{\mathrm{C}}.\mathrm{D}$	C.D	$C.\overline{D}$
$\overline{A}.\overline{B}$	0	1	3	2
\overline{A} .B	4	5	7	6
A.B	12	13	15	14
$A.\overline{B}$	8	9	11	10

Groups

(5,7,13,15)	B.D
(6,7,14,15)	B.C
(8)	$A.\overline{B}.\overline{C}.\overline{D}$

$$y = BD + BC + AB'C'D'$$



Truth Table

	A	В	C	D	Y
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	0
10	1	0	1	0	0
11	1	0	1	1	0
12	1	1	0	0	0
13	1	1	0	1	1
14	1	1	1	0	1
15	1	1	1	1	1

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