



Fig. 1

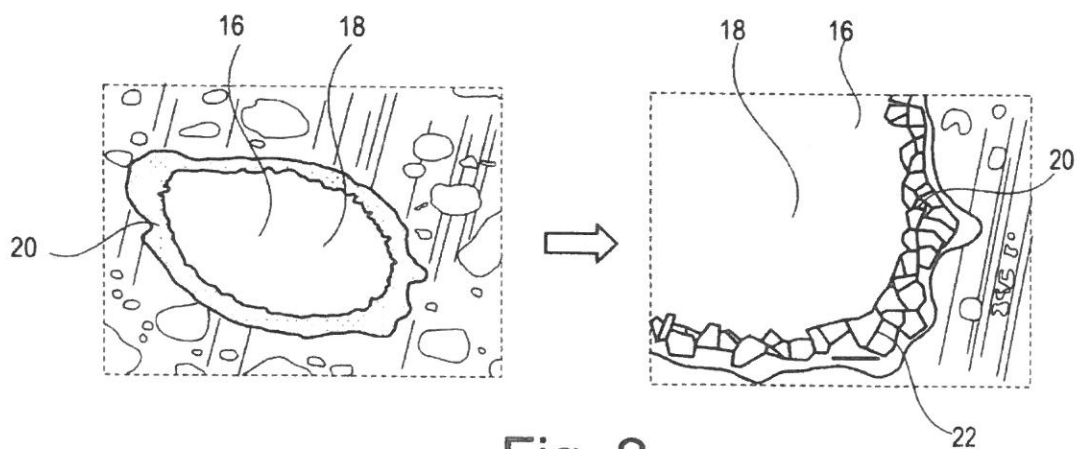


Fig. 2

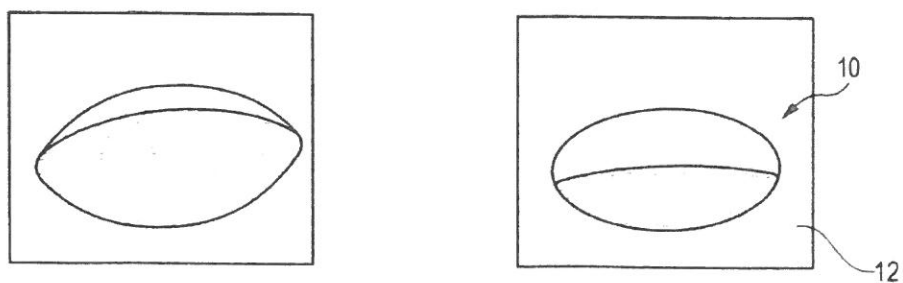


Fig. 3

Anti-bacterial effectiveness	Germ reduction (log CFU)
None	< 0,5
Slight	0,5 - 1,0
Significant	< 3,0
Strong	≥ 3,0

Fig. 4

10'

E.coli	5 min RL darkness	5 min RL 1.600Lux
AgNO ₃	4.3	3.6
	4.3	4.3
TiO ₂	2.0	3.0
	2.1	2.1
	2.2	1.2
TiO ₂ * AgNO ₃	2.3	4.3
	4.3	4.3

Fig. 5

10"

	Effectiveness RL		
Substance	5 min	1 h	24 h
Na ₂ MoO ₄	n.d	0,4	0,5
Ag ₂ MoO ₄	4,3	4,3	-
Al ₂ (MoO ₄) ₃	0,06	0,8	3,5
CeMoO ₄	0,3	1,1	3,8
CoMoO ₄	0,3	1,2	3,8
CuMoO ₄	0,3	2,1	3,8
Fe-III-MoO ₄	1,7	1,4	3,8
MnMoO ₄	0,1	1,0	3,8
NiMoO ₄	0,3	1,4	3,8
ZnMoO ₄	3,2	4,3	4,2
MoO ₃	0,4	2,6	4,5

	Effectiveness RL		
Substance	5 min	1 h	24 h
Na ₂ WO ₄	n.d	0,4	0,8
Ag ₂ WO ₄	n.d	4,3	4,3
Al ₂ (WO ₄) ₃	n.d	1,0	4,1
CeWO ₄	n.d	3,2	4,3
CoWO ₄	n.d	1,7	2,6
CuWO ₄	0,2	1,3	3,9
Fe-III-WO ₄	n.d	1,2	2,6
MnWO ₄	n.d	0,4	2,6
NiWO ₄	n.d	1,7	2,6
ZnWO ₄	0,1	3,3	3,9
WO ₃	0,2	3,0	2,1

Fig. 6

Substance	Reduction RL after incubation time in (h)	
	1 h	24 h
AgWO ₄	4,3	4,3
AgWO ₄ *TiO ₂	4,3	3,9
AlWO ₄	1,0	4,1
AlWO ₄ *TiO ₂	1,7	3,9
CeWO ₄	3,2	4,3
CeWO ₄ *TiO ₂		3,9
CuWO ₄	1,3	3,9
CuWO ₄ *TiO ₂		3,9
ZnWO ₄	3,3	3,9
ZnWO ₄ *TiO ₂		3,9
WO ₃	3,0	2,1
WO ₃ *TiO ₂	1,5	3,9

Fig. 7

Substance	RL (1 h)
ZnCrO_4	4,1
ZnMoO_4	3,2*
ZnWO_4	3,3

 10^{mm}

Fig. 8

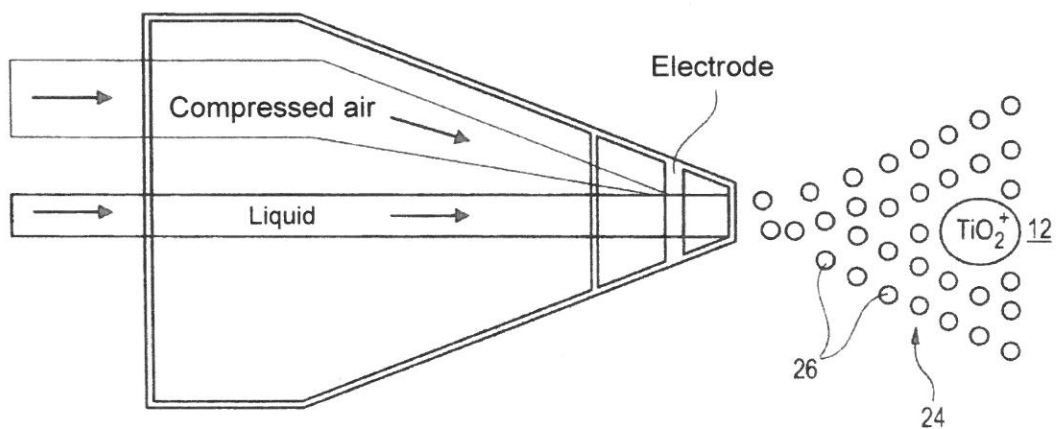


Fig. 9a

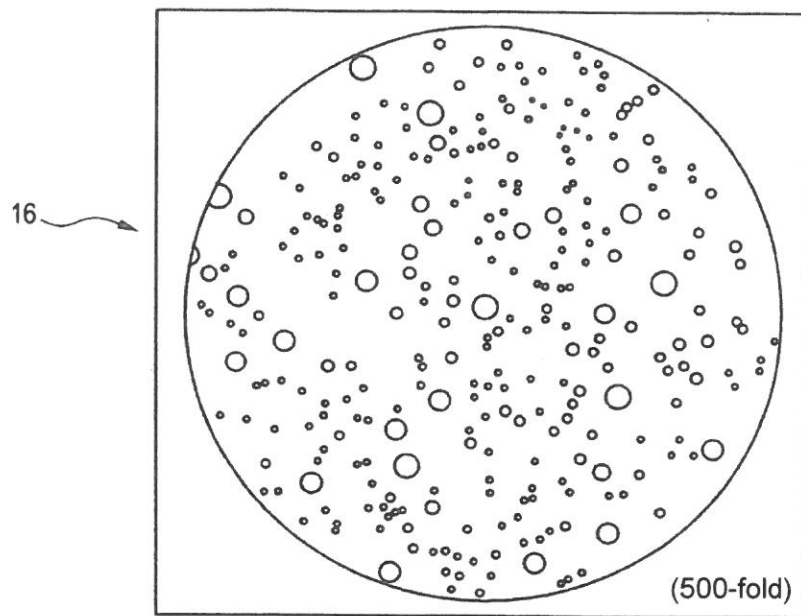


Fig. 9b

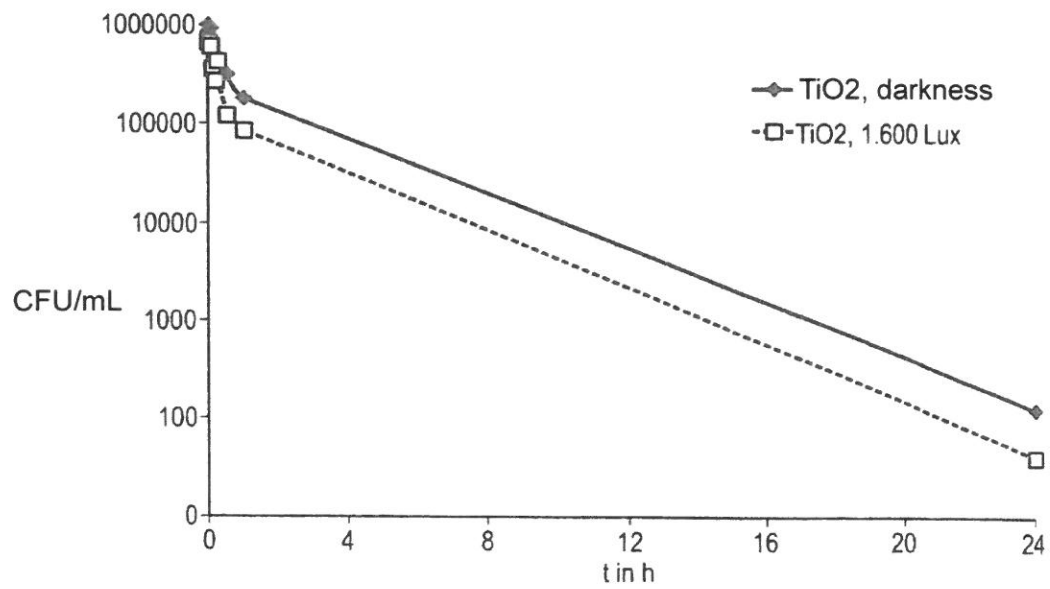


Fig. 10

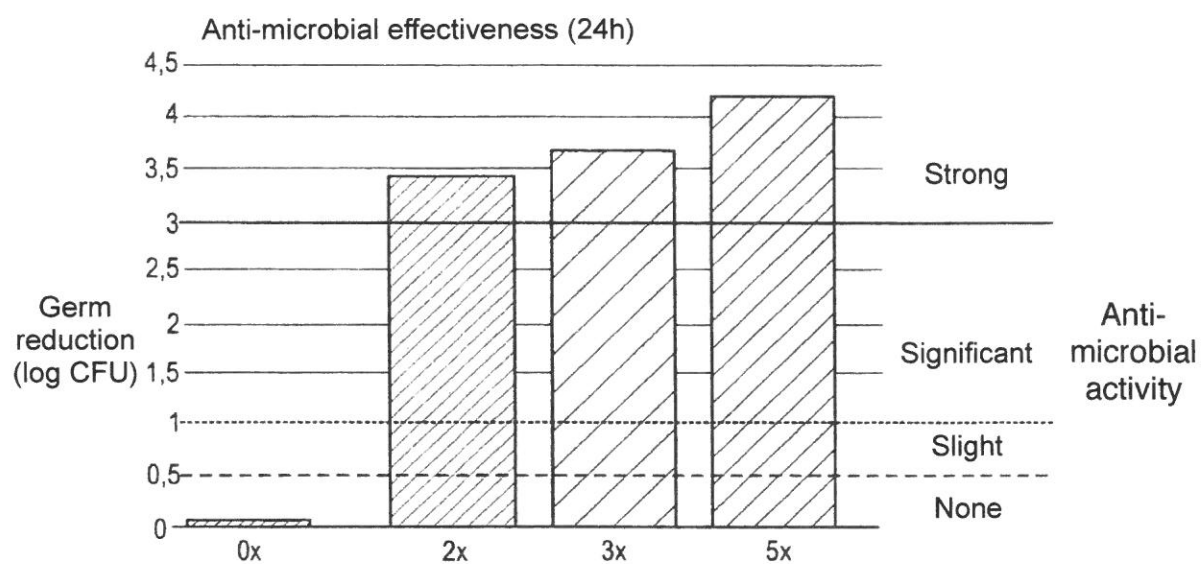


Fig. 11

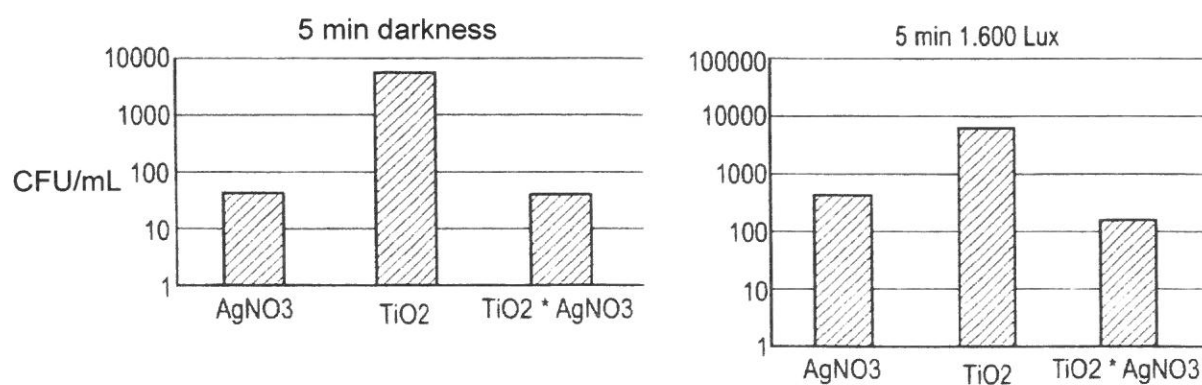


Fig. 12

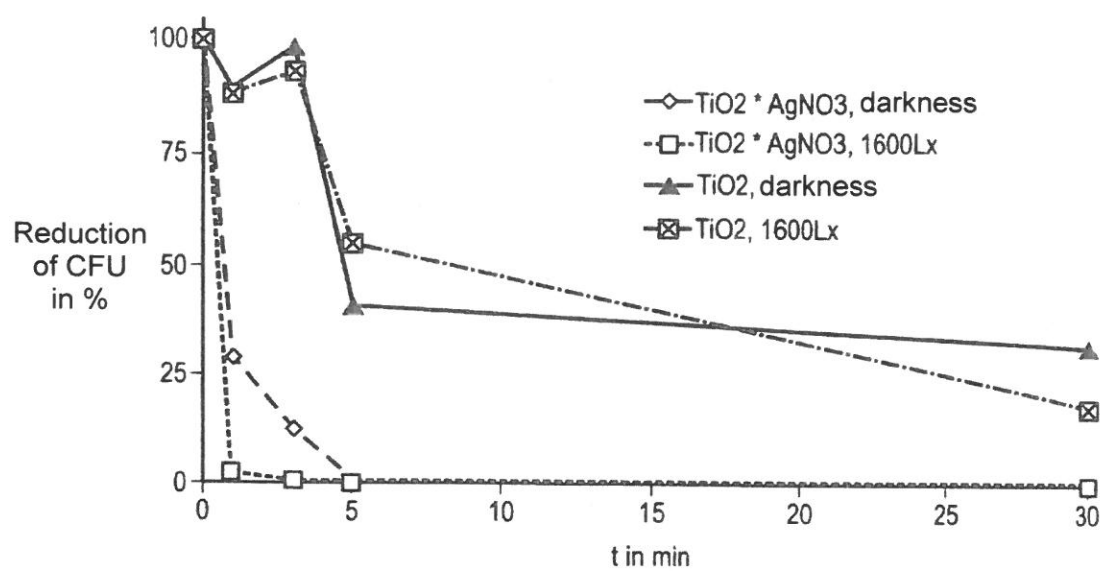


Fig. 13a

t (min)	TiO ₂ * AgNO ₃ darkness Red. (%)	TiO ₂ * AgNO ₃ 1600Lx Red. (%)	TiO ₂ darkness Red. (%)	TiO ₂ 1600Lx Red. (%)
0	0	0	0	0
1	71,3	98,1	11	12
3	88,1	99,859	1	7
5	99,870	99,993	60	46
30	99,994	99,993	68	82

Fig. 13b

SUBSTANCE	GERM	LIGHT (LUX)	INCUB. TIME (H)	R _L	REDUCTION (%)
TiO ₂ * AgNO ₃	S. AUREUS	1.600	24	4,1	99,9999

Fig. 14a

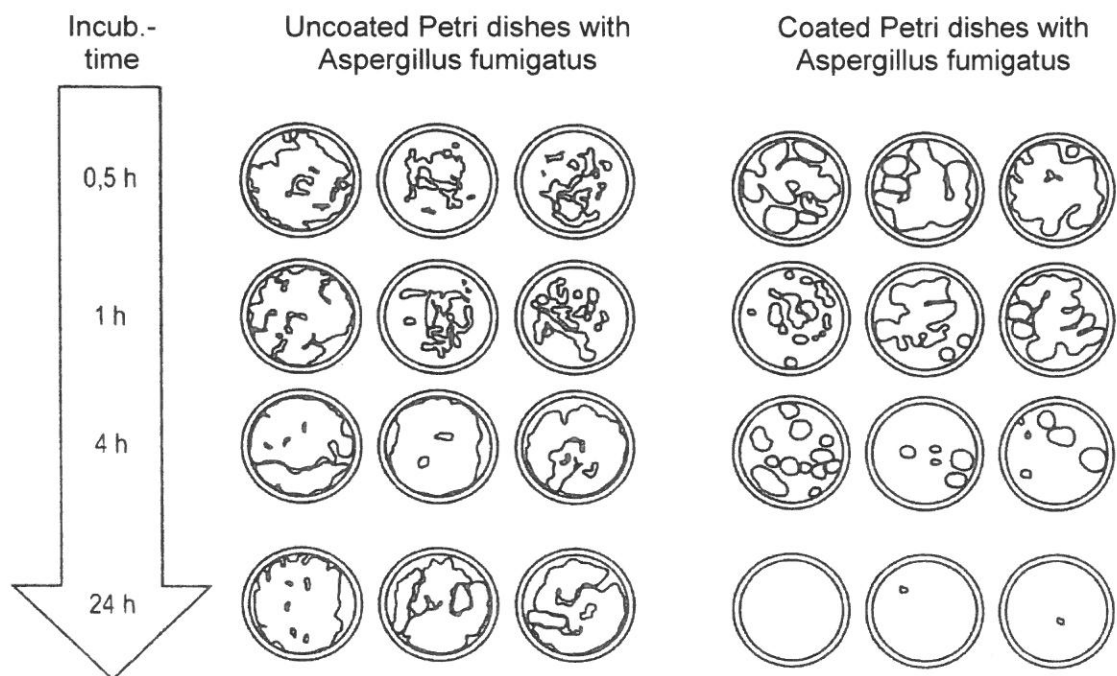


Fig. 14b

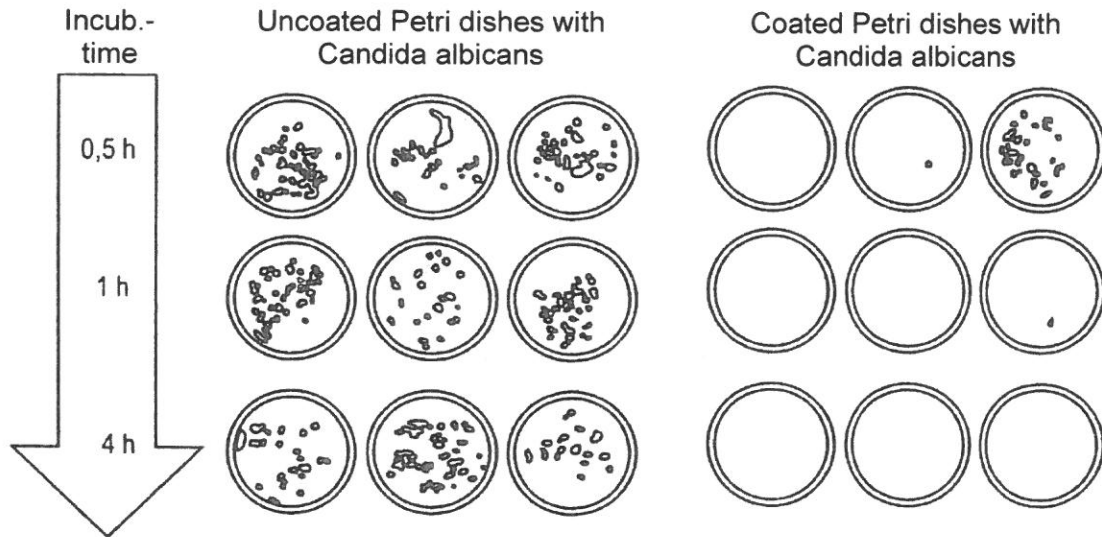


Fig. 15

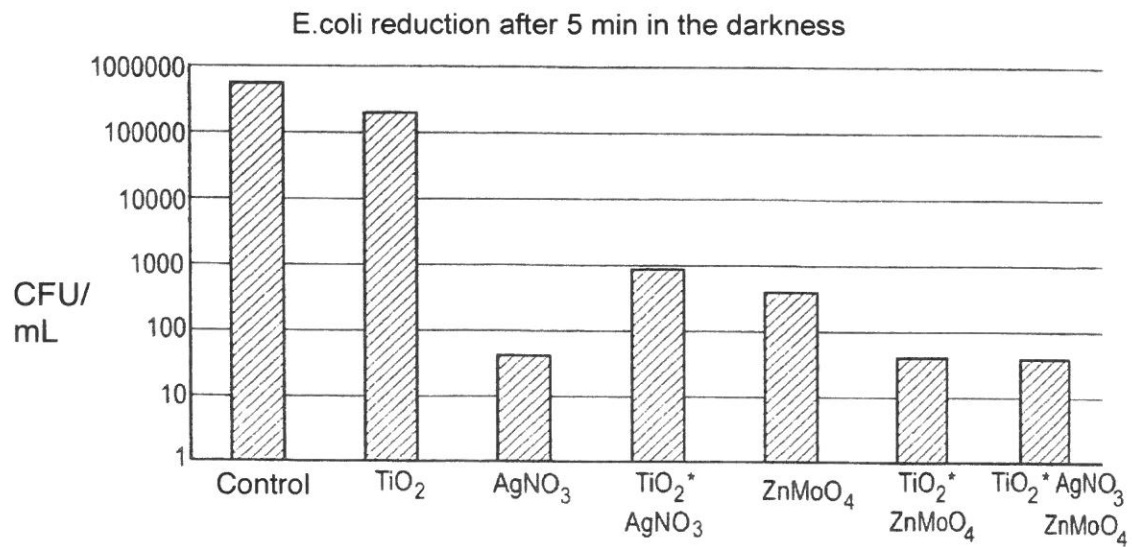


Fig. 16a