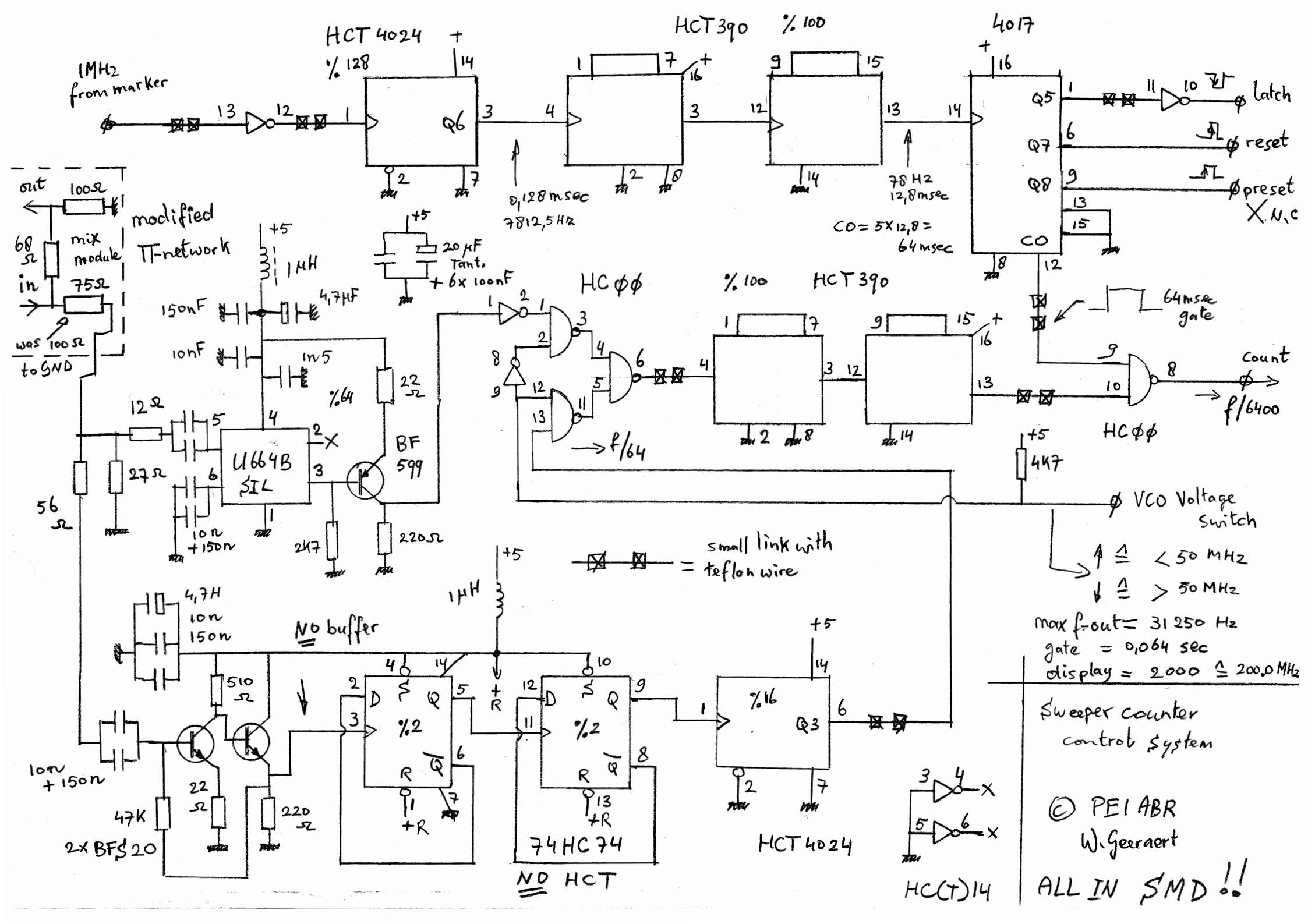
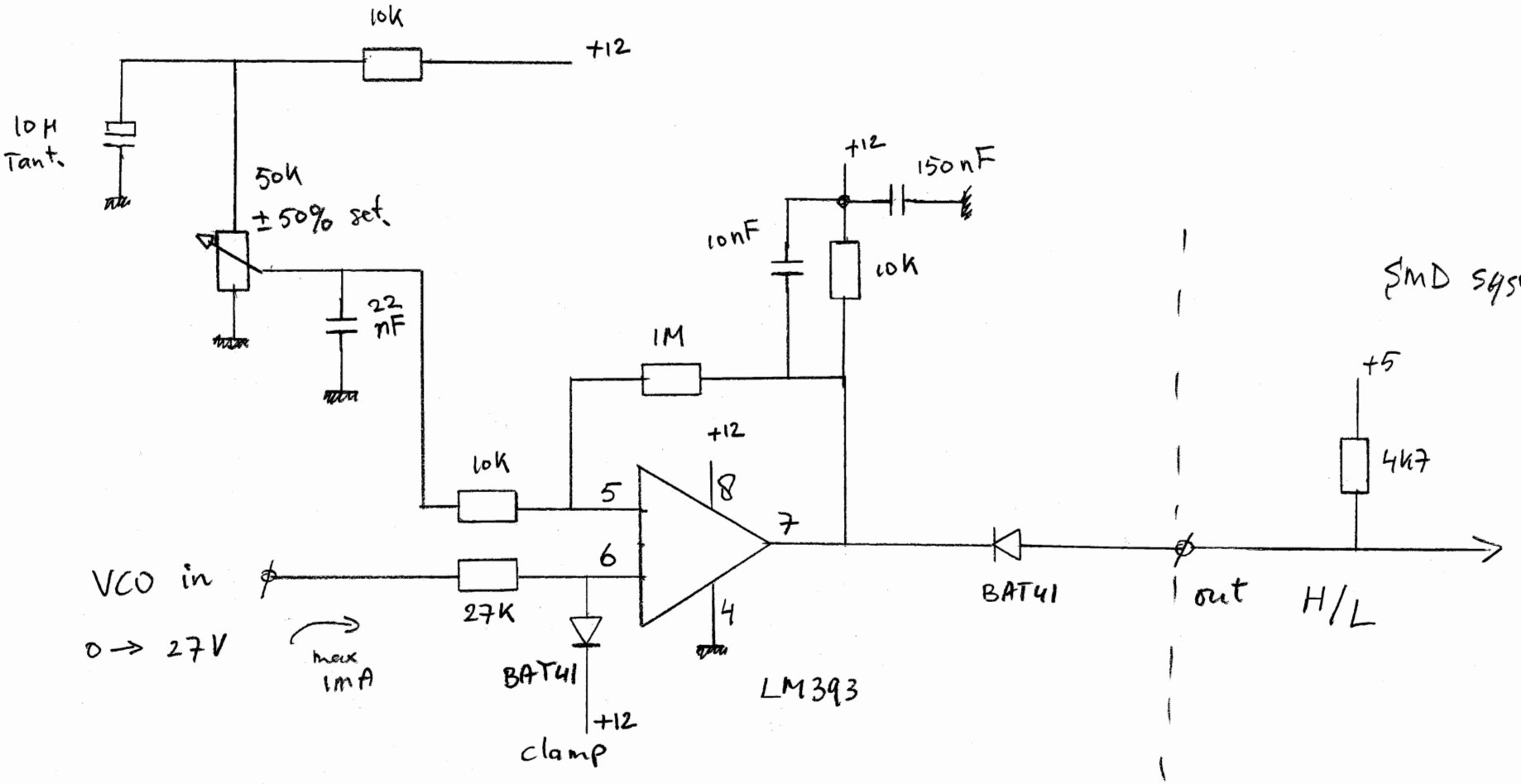

1MHz from marker
HCT4024
% 128
HCT390
% 100
4017
Q6
Q5
Q7
Q8
CO
latch
reset
preset
N.C
0,128 msec
7812,5 Hz
78 Hz
12,8 msec
CO = 5x12,8 = 64 msec
64 msec gate
count
f/6400
out
100Ω
68 Ω
mix module
in
75Ω
was 100Ω to GND
modified TT-network
+5
1 µH
150nF
4,7µF
10nF
1n5
% 64
22 Ω
12 Ω
27 Ω
56 Ω
10n +150n
U664B SIL
BF 599
2k7
220Ω
20 µF Tant. + 6x 100nF
HC ϕϕ
f/64
4k7
ϕ VCO Voltage Switch
≙ < 50 MHz
≙ > 50 MHz
small link with = teflon wire
4,7µ
10n 150n
NO buffer
510 Ω
47K
22 Ω
220 Ω
2x BF520
%2
%16
74HC74
NO HCT
HCT4024
HC(T)14
max f-out = 31250 Hz
gate = 0,064 sec
display = 2000 ≙ 200.0 MHz
Sweeper counter control system
© PE1ABR W.Geeraert
ALL IN SMD !!



VCO switch = ± 5V ≙ ± 40 - 50 MHz

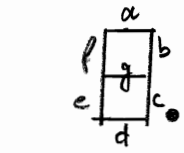
U VCO > 50MHz → ECL on → output ≙ low
above 5V

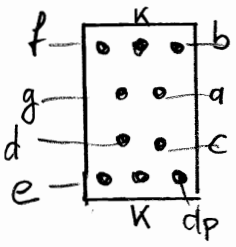
U VCO < 50MHz → 74HC74 on → output ≙ high
below 5V

auto input switch

sweeper counter

CC displays !!





HD 1077g
g = green

4511 x4

all outputs SMD-C position

all 330Ω

4x 10µF near 4511

brightness CC-bar

100 nF

1N4004

msB

blanking

Latch

4510 x4

Count IN

SND

10K

10K

OR 2x 4K7

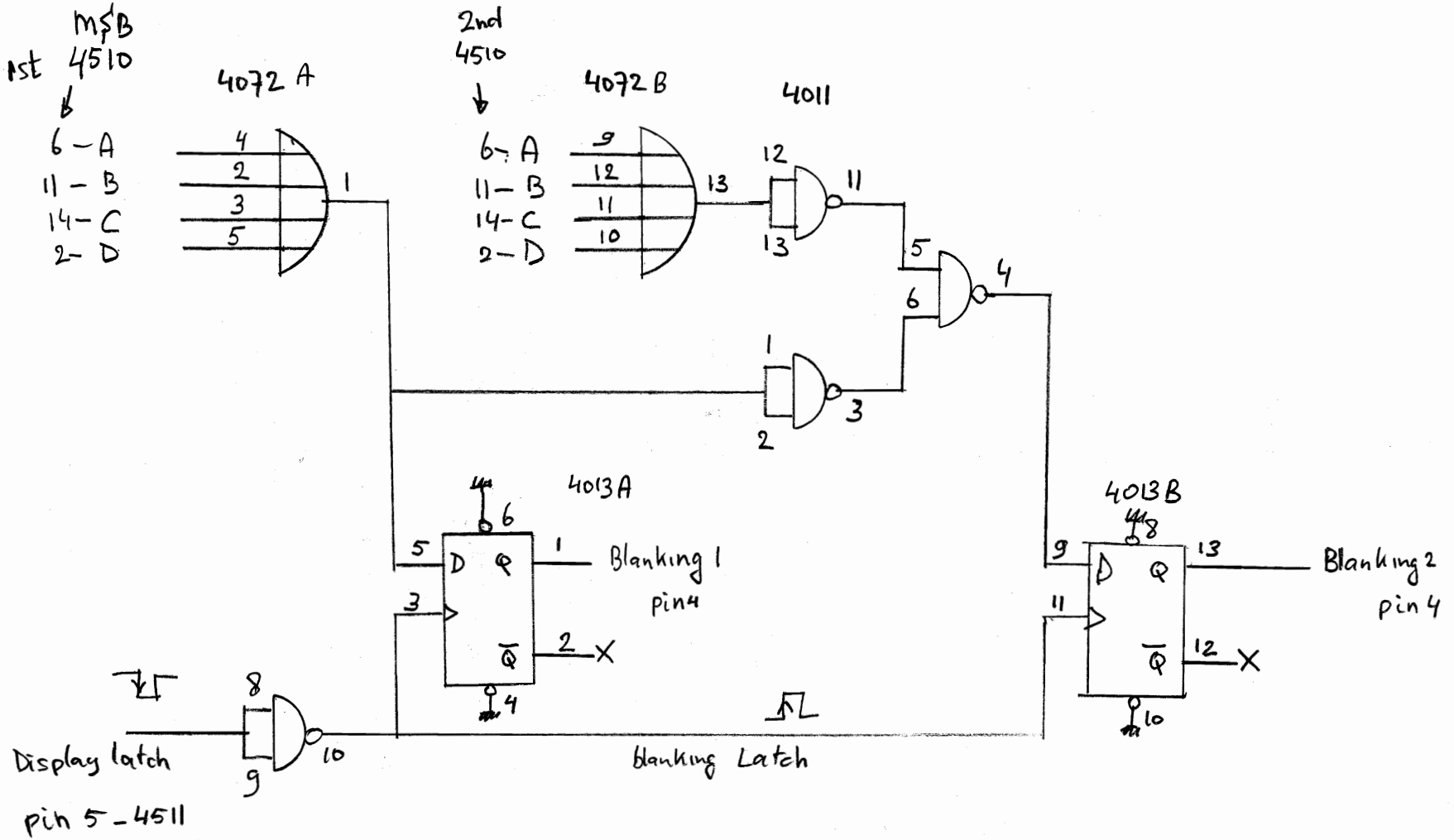
4x 33nF near 4510

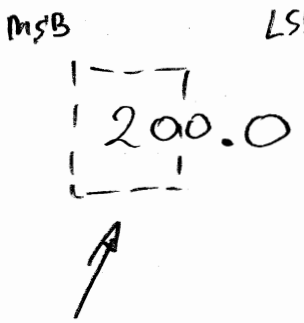
47µF

U/D N.C.

reset GL

preset N.C.





Ripple blanking
first 2 digits
sweeper counter

PE1ABR

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