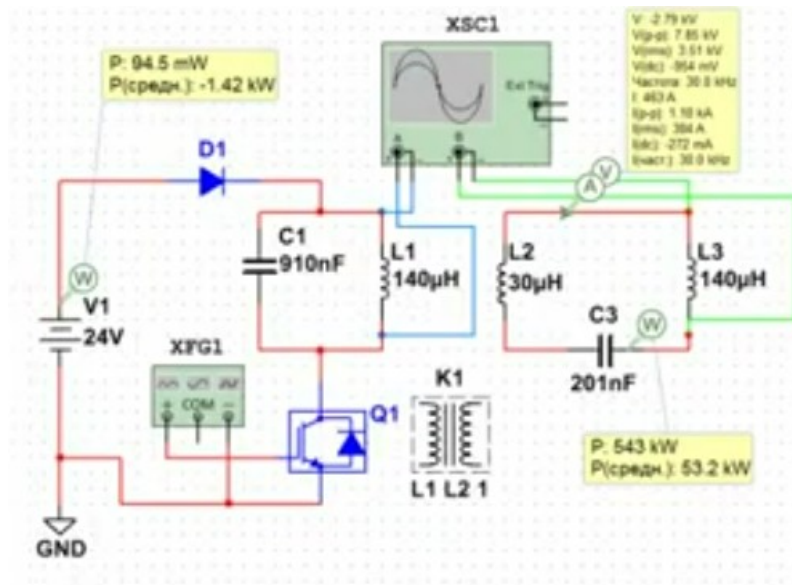


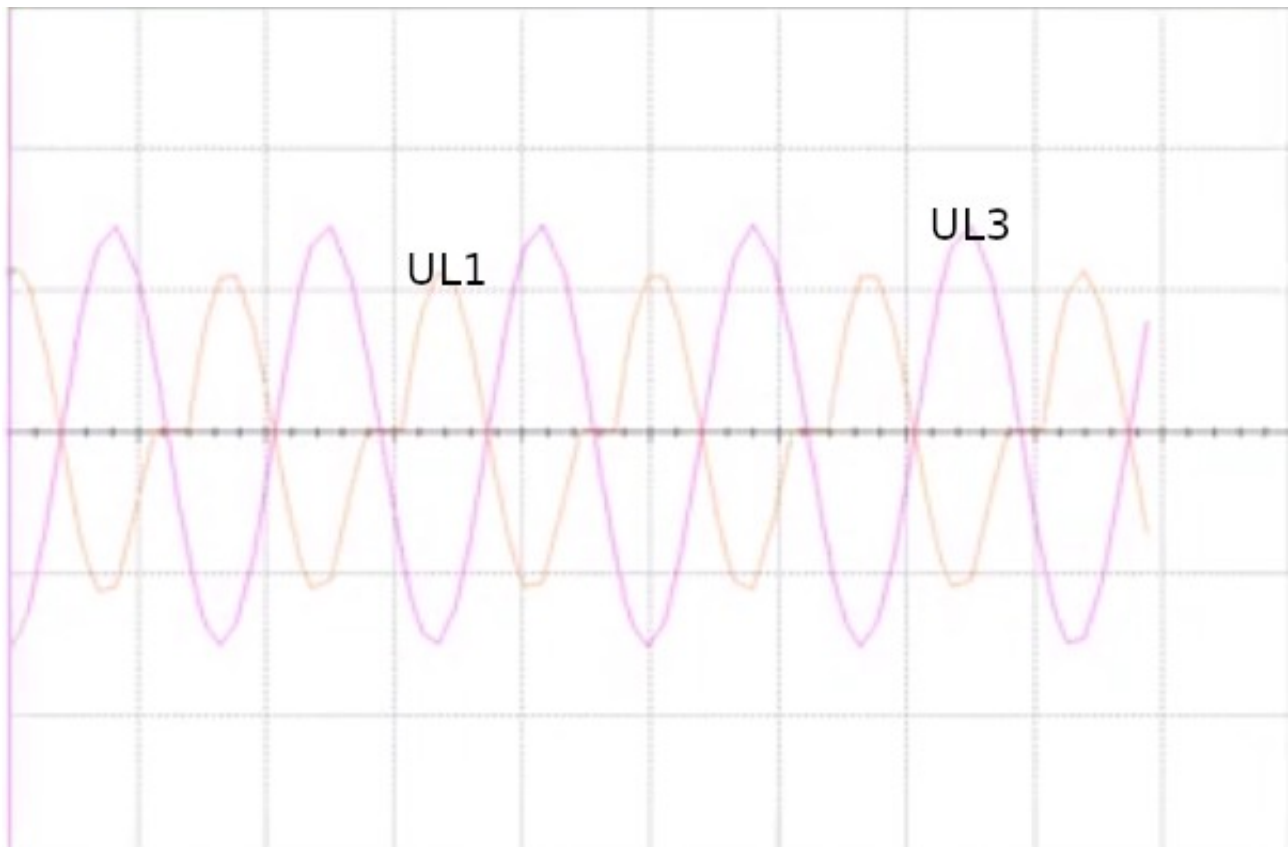
More information about Yurovski system
 based on <https://www.youtube.com/watch?v=FtrXOXXKbmOI> video



pic.1 Schematic base

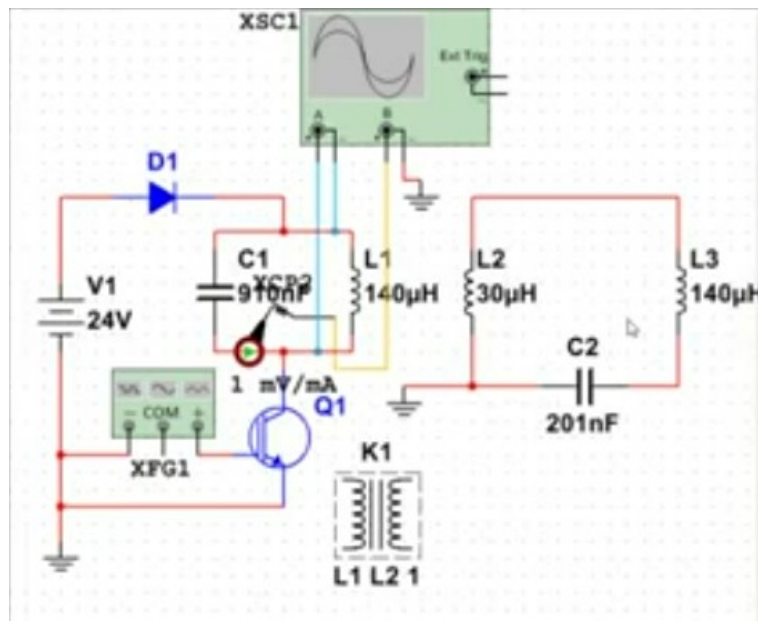
L1C1 parallel resonance circuit

L3 C3 series resonance circuit, loosely coupled with L1C1

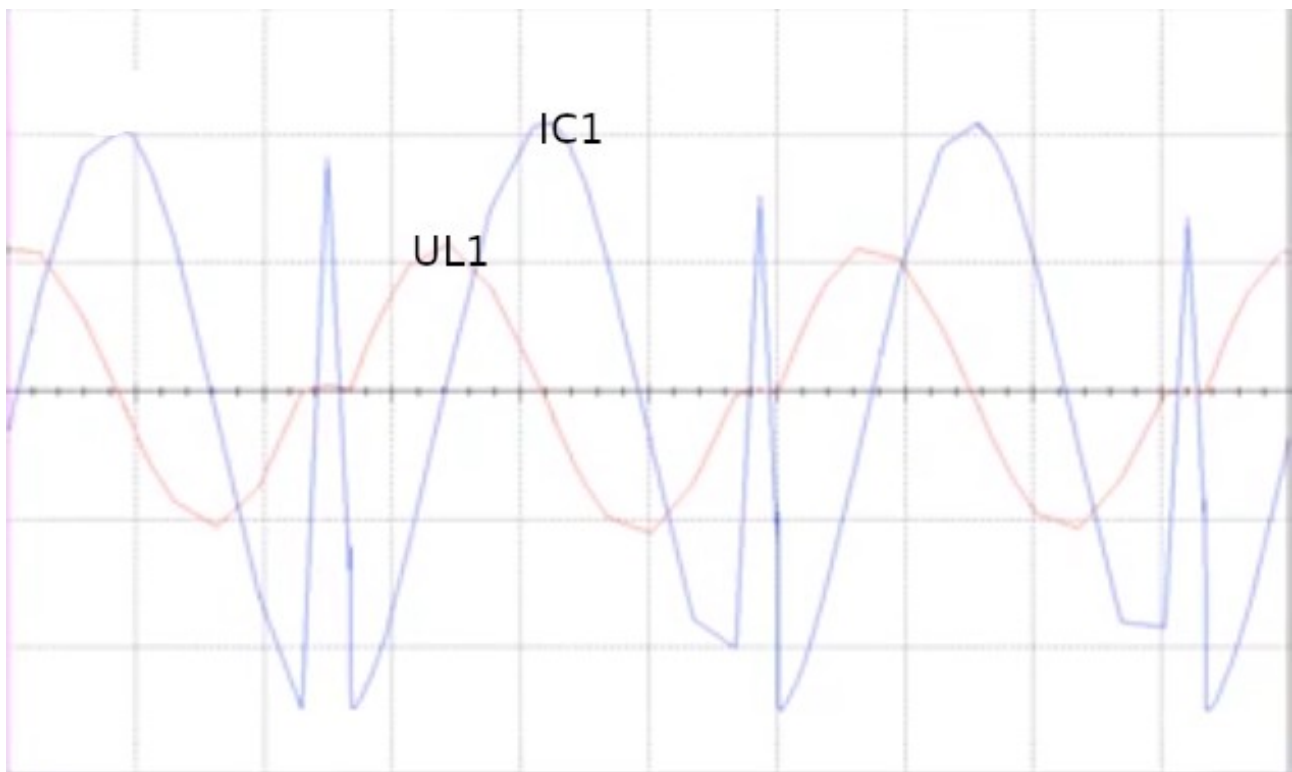


pic.2 Voltage on L1(UL1) and on L3 (UL3)

Notice a specific “horizontal step” on UL1

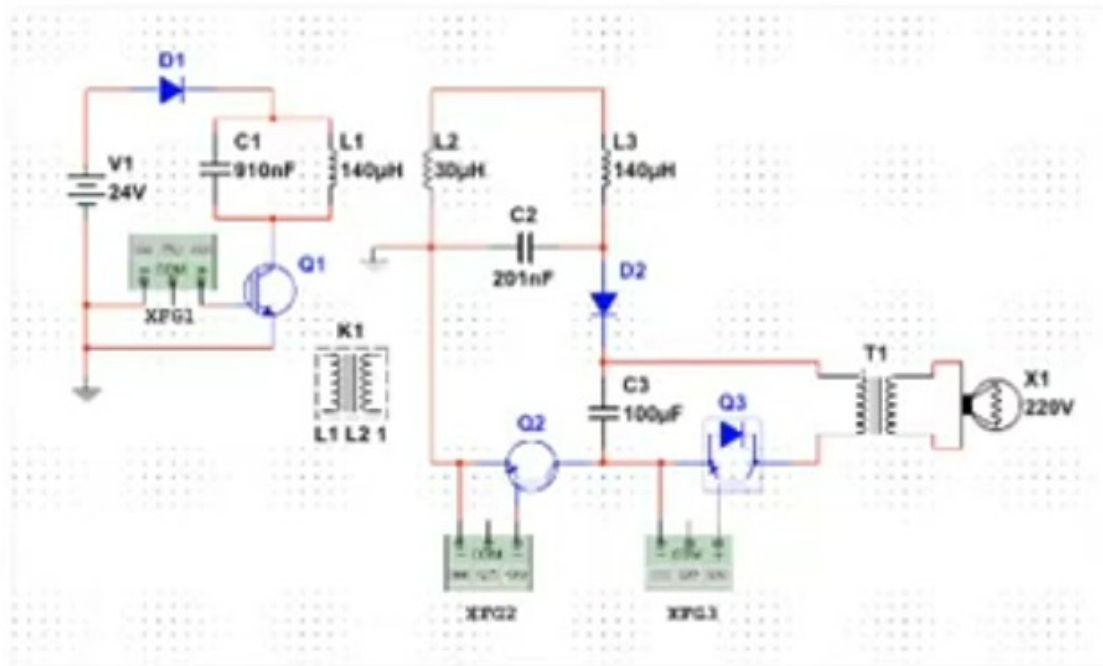


pic.3

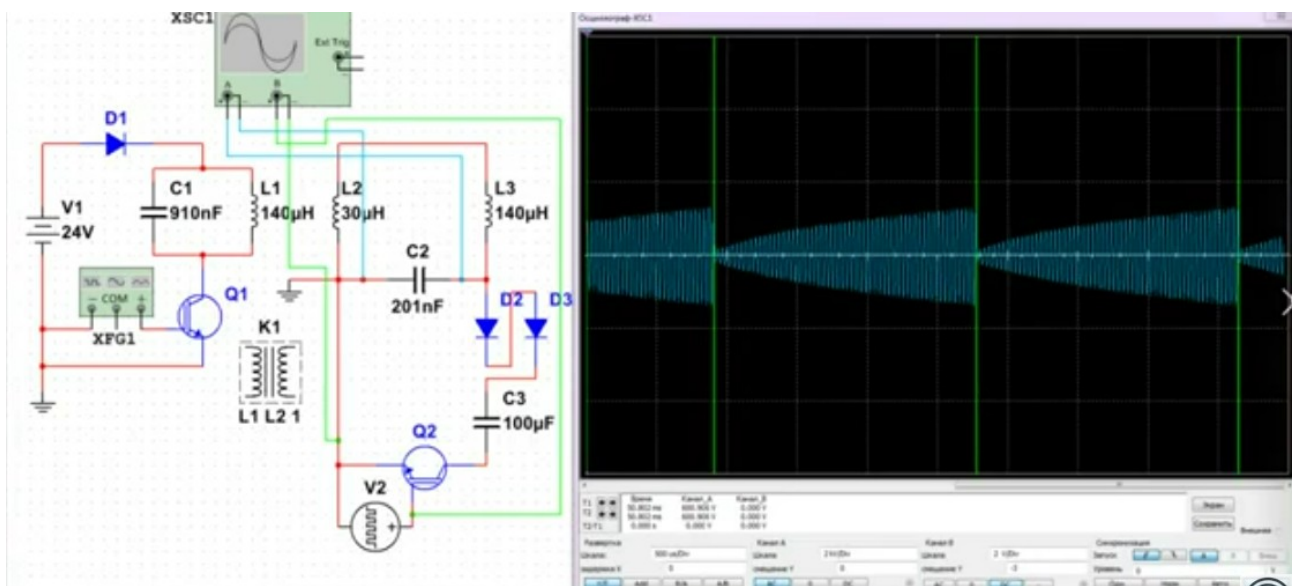


pic.4 Voltage on L1 (UL1) and current in C1 (IC1)

Notice C1 current reversal during “horizontal step”



pic.5 Overall device setup

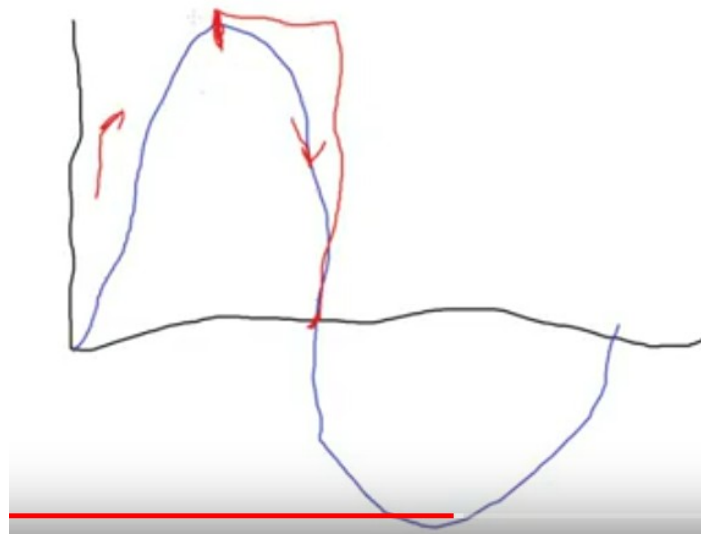


pic.6 Charge removed from C3 once it charged to 600-800v



pic.7 Bigger scale of pic.6

C3(100uF) connected to C2 for “charge removal”
Suggested frequency 1-5Khz (every 5 - 30th cycle)



pic.8 red – time when C3 connected to C2

Construction details

L1, L2 – ferrite transformer, E core $\mu=2000$



L1 wound first, then L2, inductance in range of 100-300uH
thick wire 8-10mm sq.

L3 air core choke

Operation frequency 30Khz (20-30Khz recommended range)

C1,C2 snubber capacitors 2-6KV



C3 oil filled capacitor 100-200uF 1.5KV

Q1-3 IGBT modules

T1 iron core trafo e.g. from old welder, Q3 control freq. 50-150hz (anything you like)

D1 HV HF diodes 1200v

D2 same, several in parallel