Resonance in biffilar coil
https://www.youtube.com/watch?v=mJSEZMNRLXA
by Sergey Alexeev

00:04 Hello Cyril
00:05 so I gave you the complete schematic
00:11 I didn't put a ring here for
00:13 sync, but when it heats up
00:15 starts... in general, the effect goes away, self-powering disappears
00:20 so we have a gradient coil
00:25 here 38 meters, Tesla 19 meters
00:30 inductor is also 19 meters
00:33 on a gradient coil, three capacities of 0.1 each
00:37 microfarad
00:38 into resonance and here 0.5 microfarads but
00:43 this is a such set, well, in short, a little more
00:47 0.55 microfarads in the end if
00:52 turn off this capacitance (gradient coil's capacitor) and
00:55 use just
00:56 inductor then our frequency will be...
01:00 will be in total 8.6 or 8.7 kilohertz but a
01:09 if you just connect separately to
01:12 this coil,
01:14 on gradient coi 0.3 microfarad also
01:17 the frequency will be low, but in the end if
01:19 at the same time we connect them both,
01:21 I wound this coils in reverse
01:24 we get current on one side of inductor
01:28 and on gradient coil
01:32 we get
01:34 galvanic potential
01:37 so we combine voltage and current
01:41 what's interesting
01:45 with this configuration, if we connect both
01:47 we get not 8 kilohertz
01:51 frequency goes up two times
01:55 push pull here now work on 16 khz
01:59 that's how it turns out if at 8
02:02 kilohertz resonance, we have a current with one
02:06 side of the coil, in general current and current is different
02:10 voltage sides are all currents here too
02:14 that is, the voltage and current of this phase is not
02:17 flipped 180 degrees, but
02:19 when frequency twice up it
02:22 resonates, phases flips
02:26 and this coil can work like this
02:31 a very interesting effect turned out
02:33 I have rectifier bridges
02:36 150EBU04 it is 150 ampere here
02:40 I put a fan on, but I even
02:43 didn't need it, they not getting hot at all
02:46 well, they stand a little warm

02:49 here, yes, I put it already fan on Tesla
02:54 power supply 8 volts applied to this fan
02:57 is spinning this is enough, so these
03:01 filter capacitors well at our exit
03:06 10 microfarad 450 volt power supply 24
03:12 volts 8.5 amps its
03:16 working at its maximum power well
03:23 first grenade was wound in opposite directions
03:25 now in one direction
03:28 with that grenade it turned out to tune without a spark gap
03:31 but with this it didn't work out
03:33 last time it was, you watch scope...
<cut>