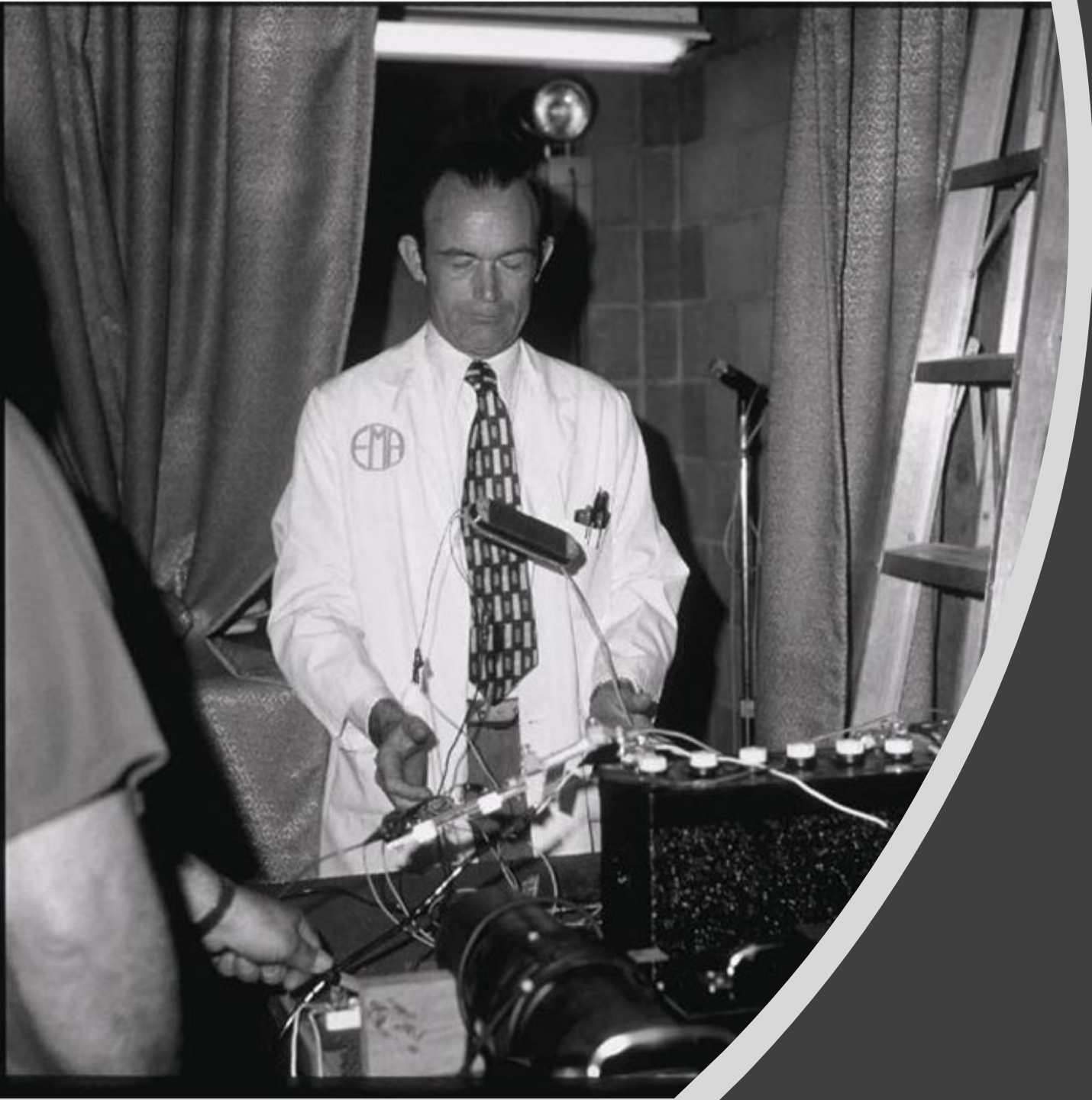
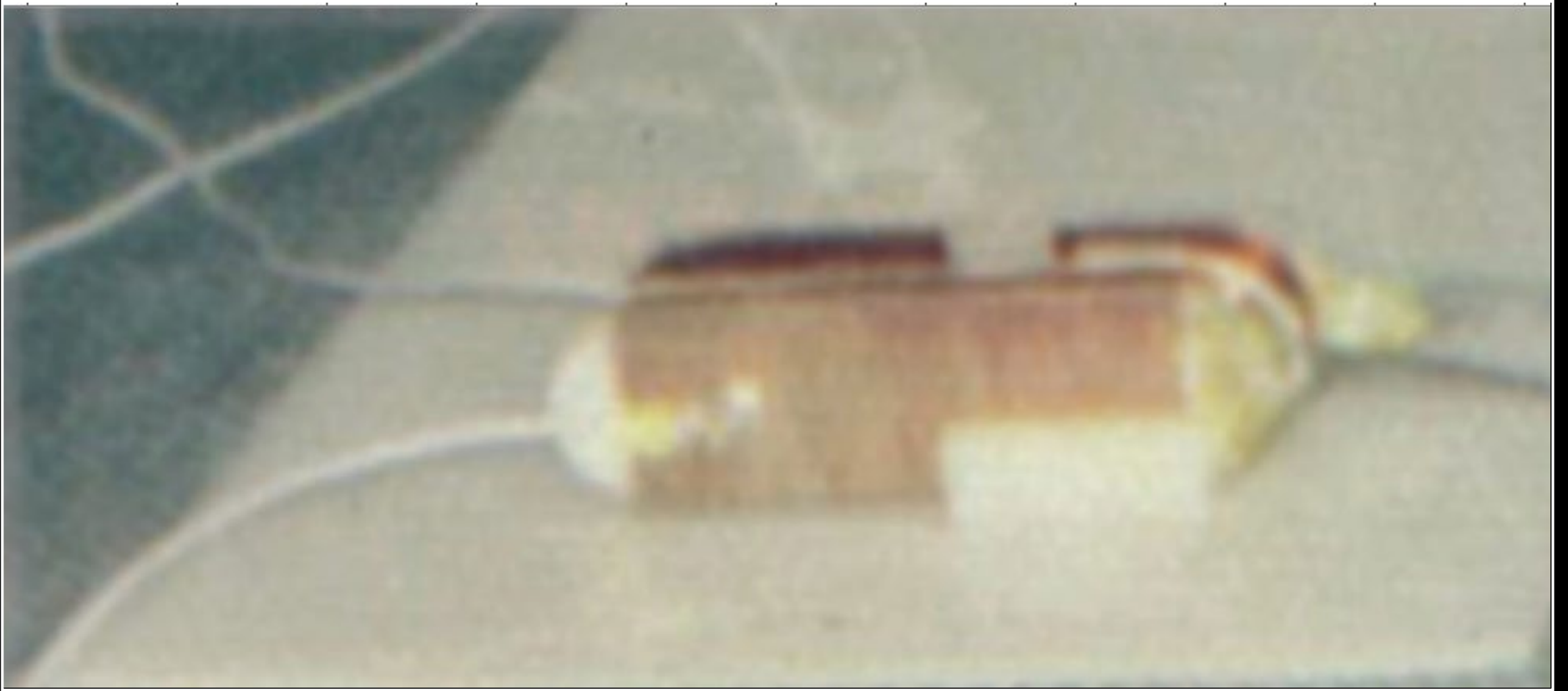


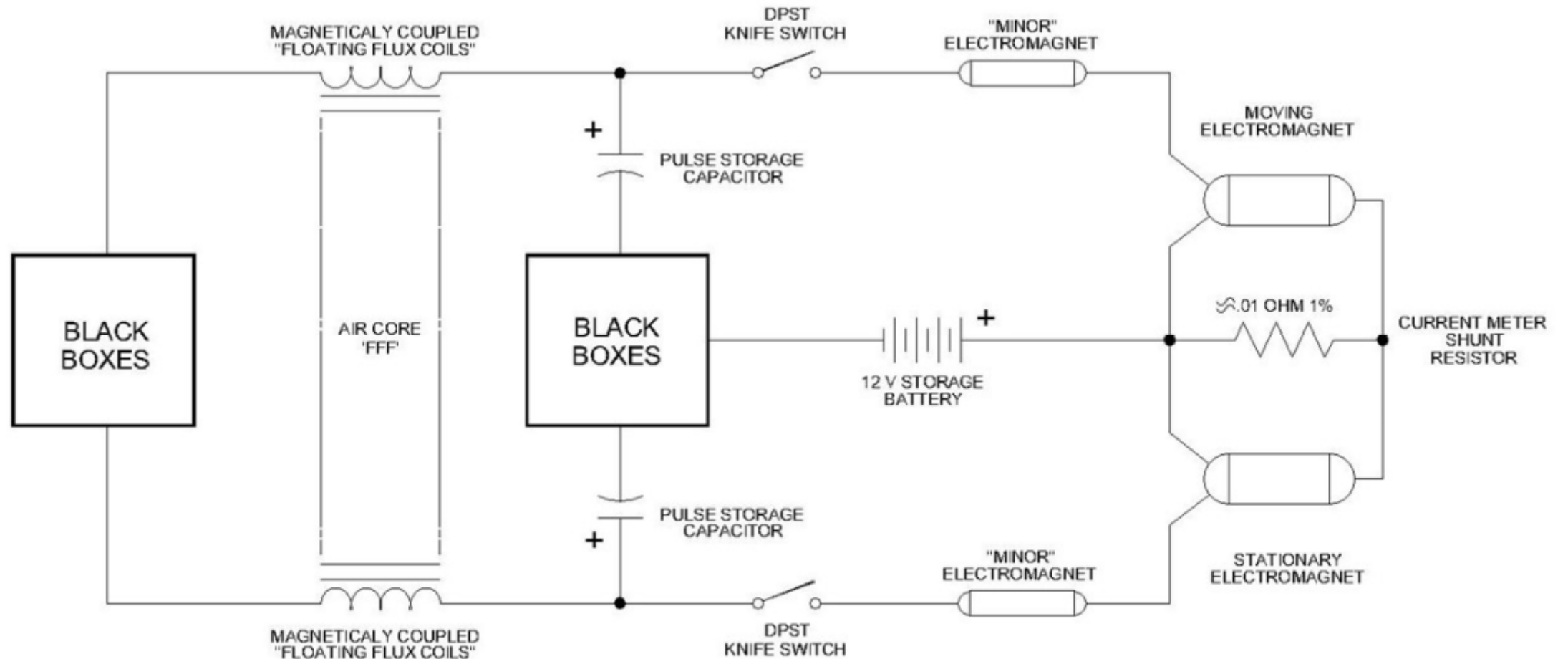


The actual
electromagnets had
a minimum of
three(3)conductors.



Another view shows three (3) conductors. This is not a simple solenoid coil but a transformer design.

Corrected Power supply schematic from the 1975 patent



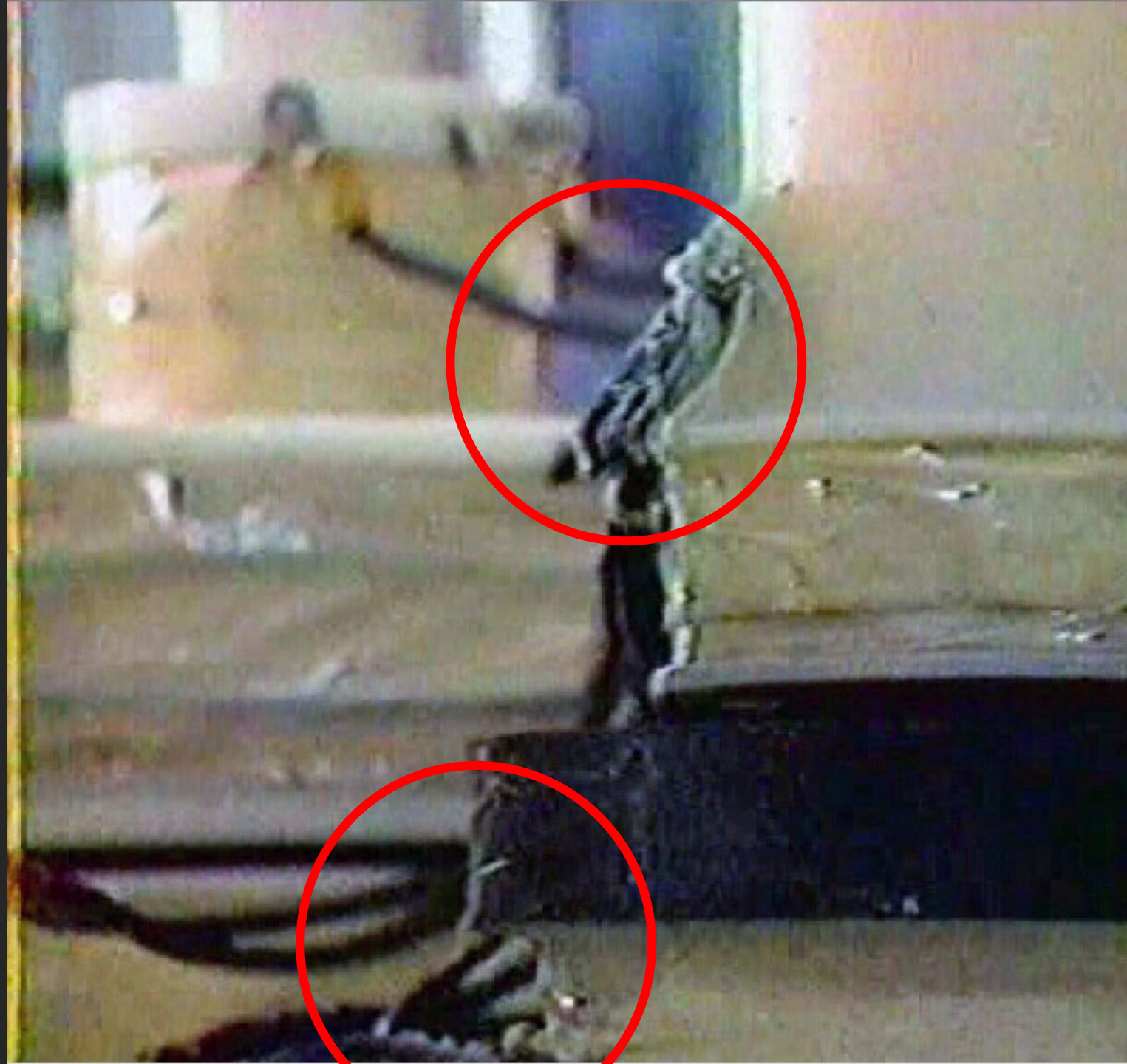
SPECULATIVE WIRING LAYOUT OF MARVIN COLE "POPPING COIL" DEMONSTRATION
FROM 1974 LAYOUT



Additional confirmation
of complex coil structure
from popping coil
equipment - From 1986
video demo

Blowup of
previous photo
showing 4
wires going to
each
electromagnet

Ignore 2nd Popping
Coil in the
background



Proposed possible wiring diagram

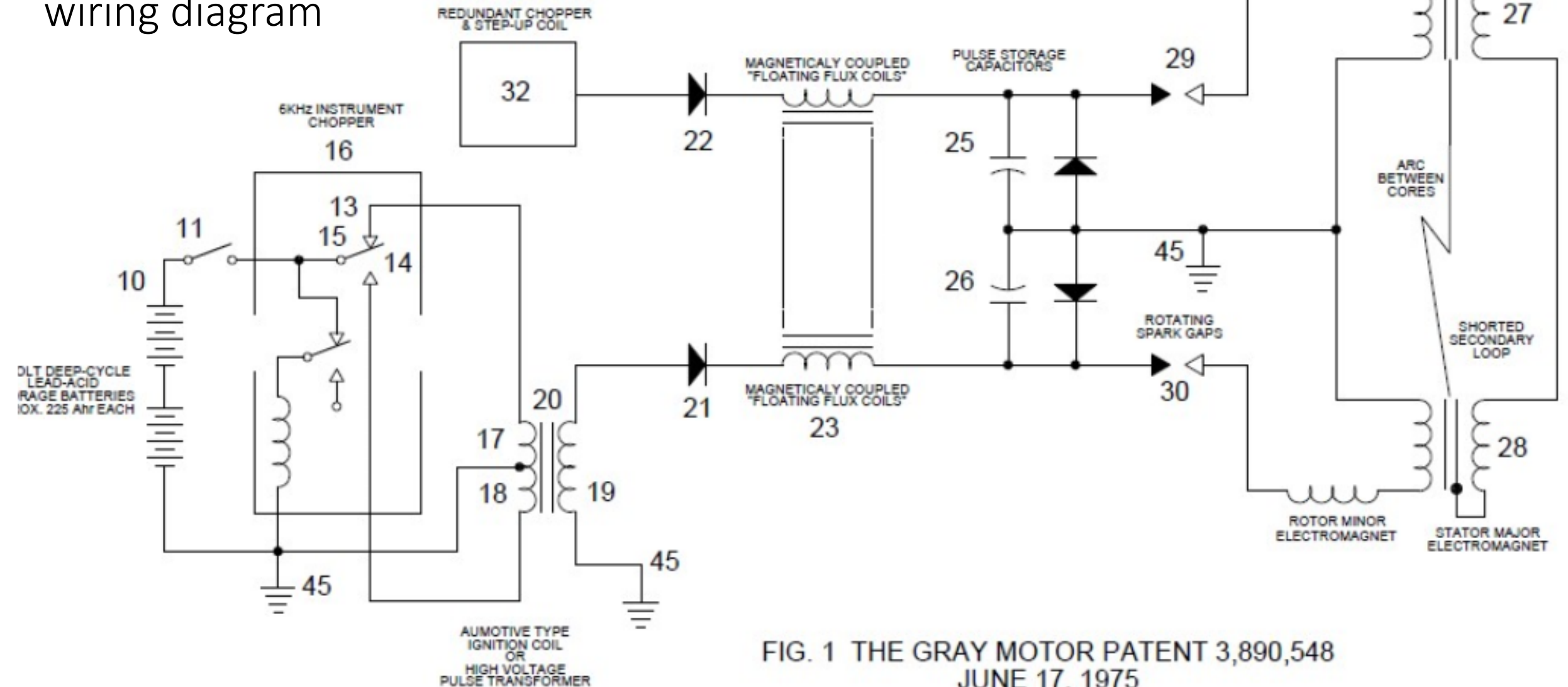


FIG. 1 THE GRAY MOTOR PATENT 3,890,548
JUNE 17, 1975

PROPOSED WIRING OF OPPOSING ELECTROMAGNETS

Hidden Secret #2

The Switching Arc

First clue of the pole-to-pole arc switch -
machined observation
window

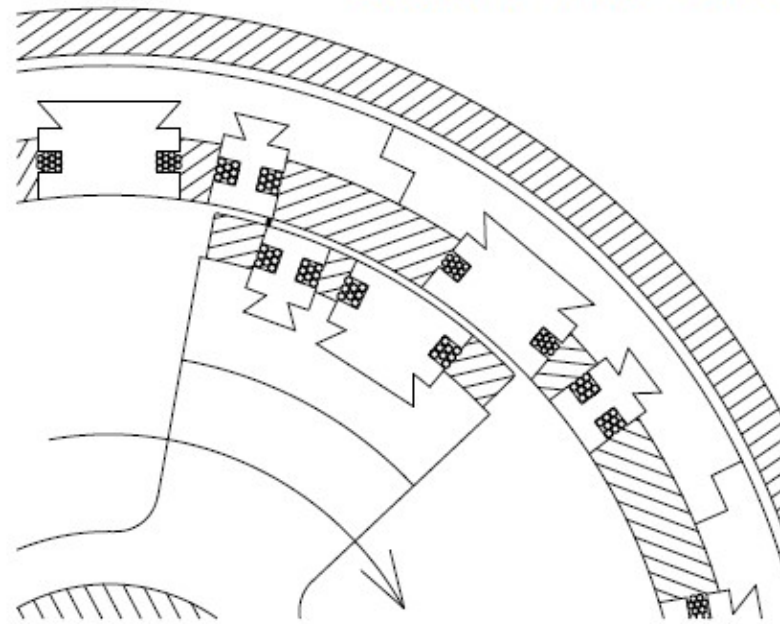
This feature did not exist
On the previous versions
Of the motor series.



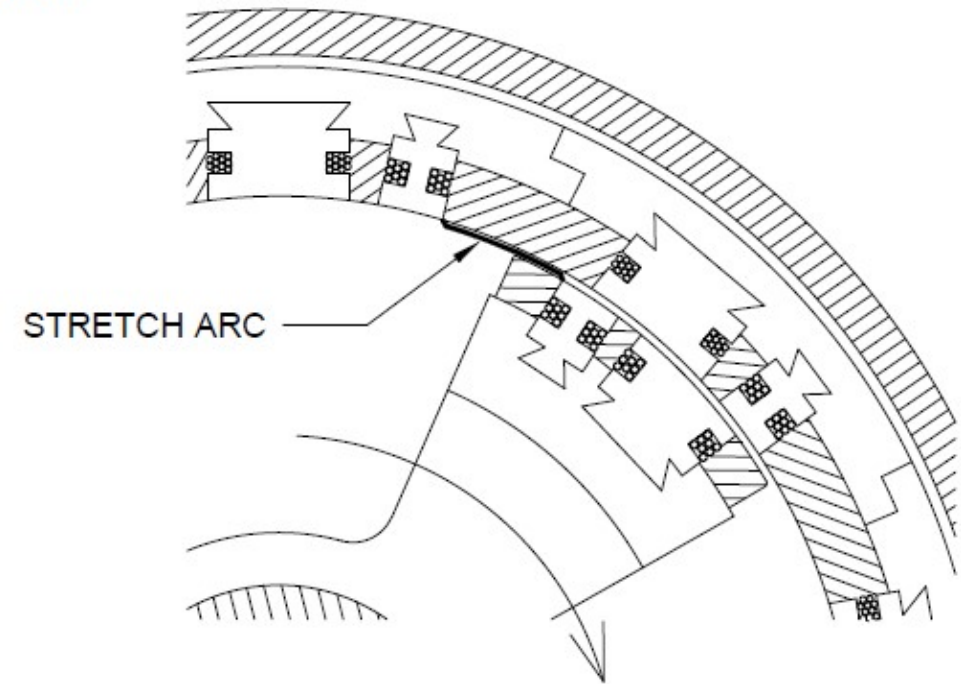
Possible arc formation between poles

This is the designated 0° position as shown in the 1975 Motor Patent

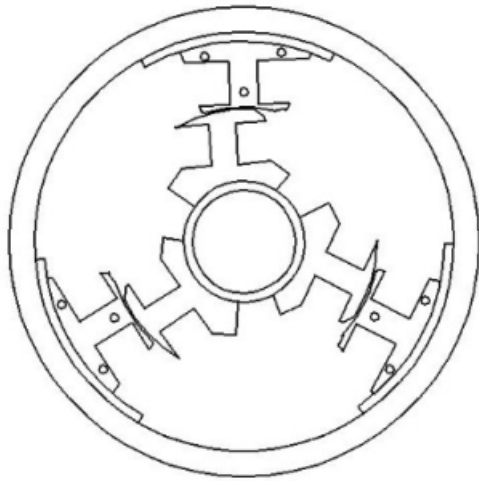
AT 1,100 RPM = THE MINOR ELECTROMAGNET IS MOVING AT 368" PER SECOND



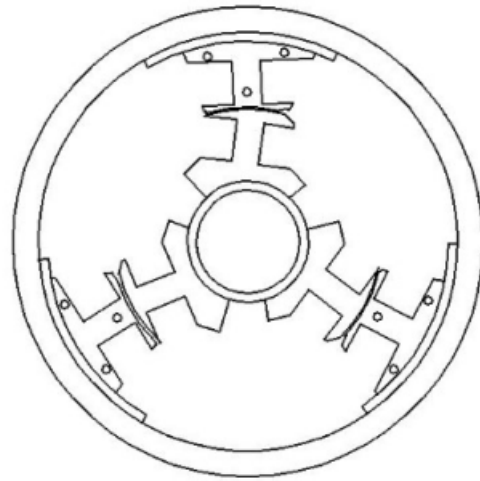
ARC STRUCK BETWEEN MINOR POLES



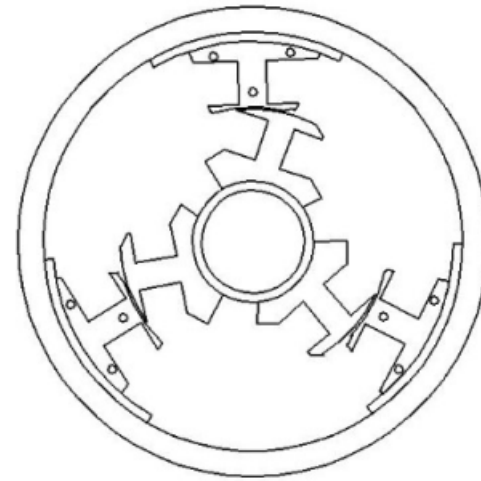
STRETCHED ARC IS QUENCHED 13.33° LATER
IT HAS BEEN STRETCHED 1.12" IN 8.8 ms



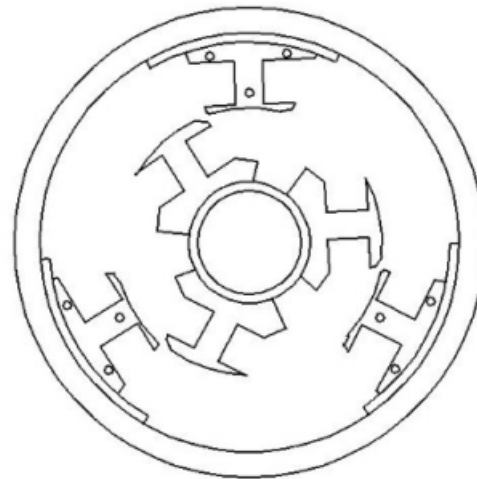
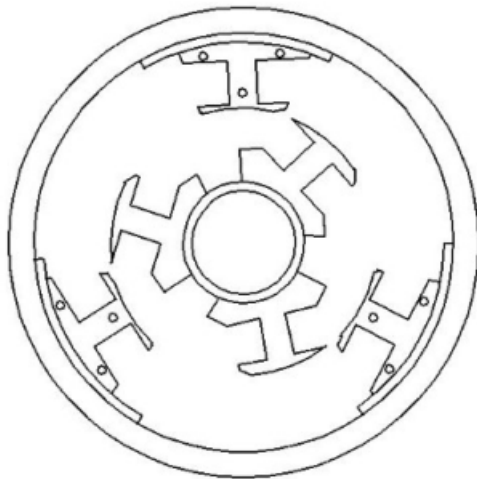
-12° POSITION



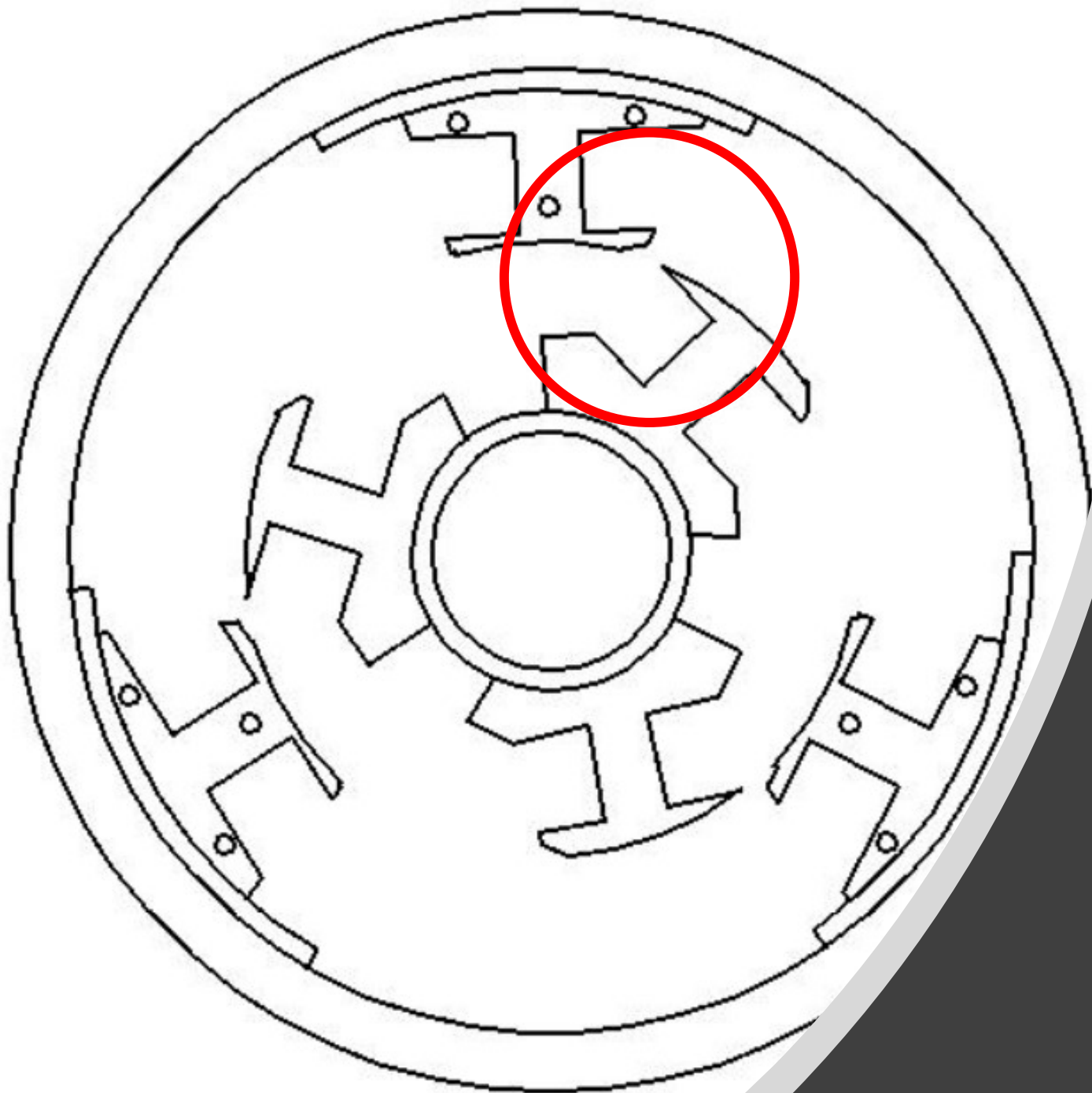
0° POSITION



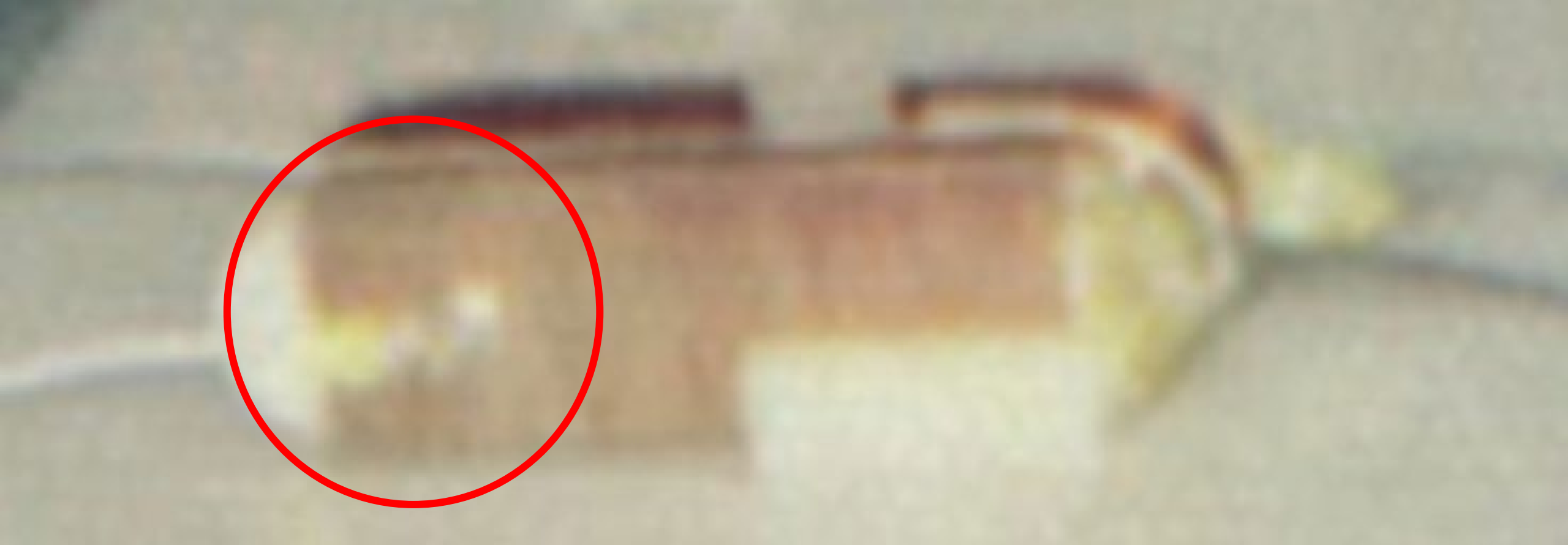
+12° POSITION



Possible arc
switching
path in the
Purple (and
other)
Motors



Enlargement of
electromagnet
cores - less
windings



Electrically active laminated core of the
EMA4 electromagnets

Proposed electromagnet wiring showing arc path and shorted secondary

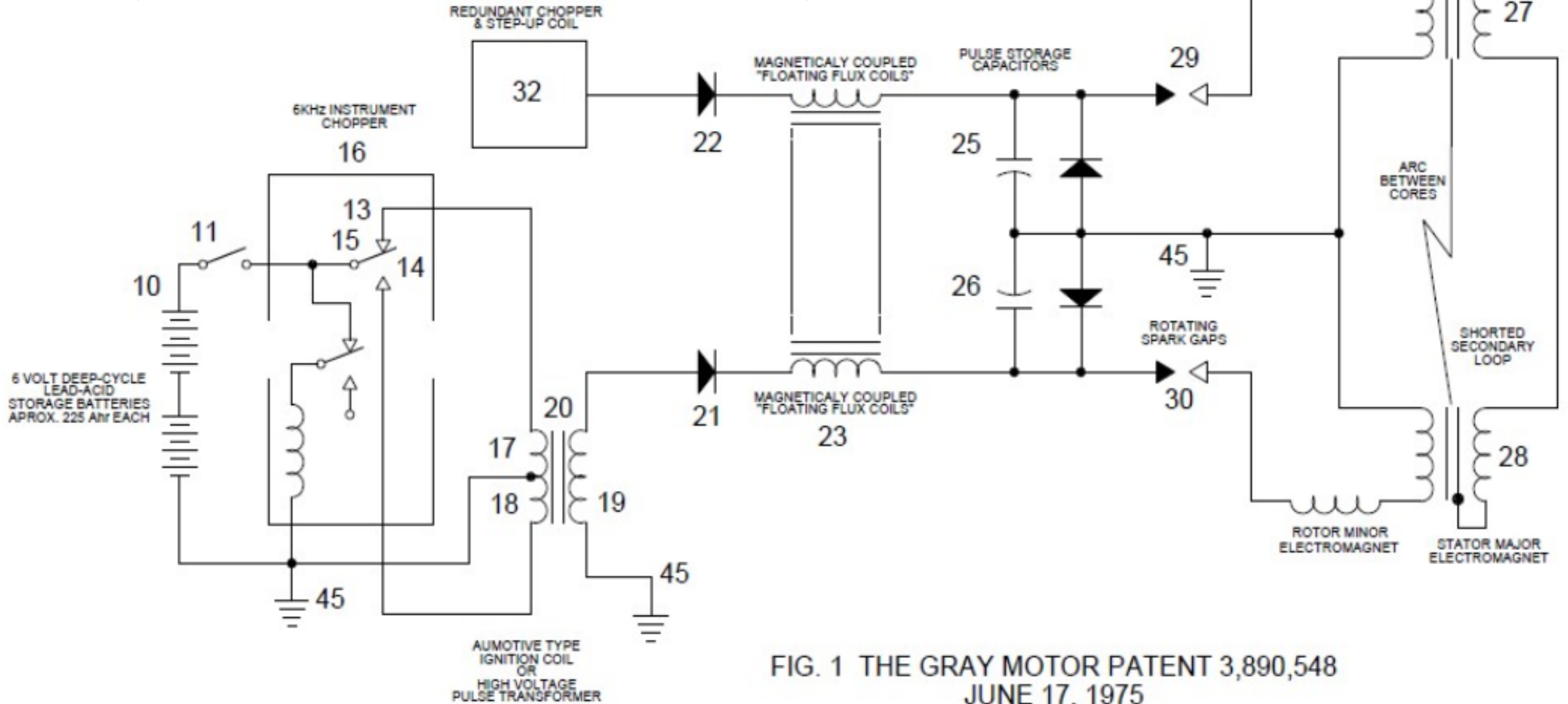


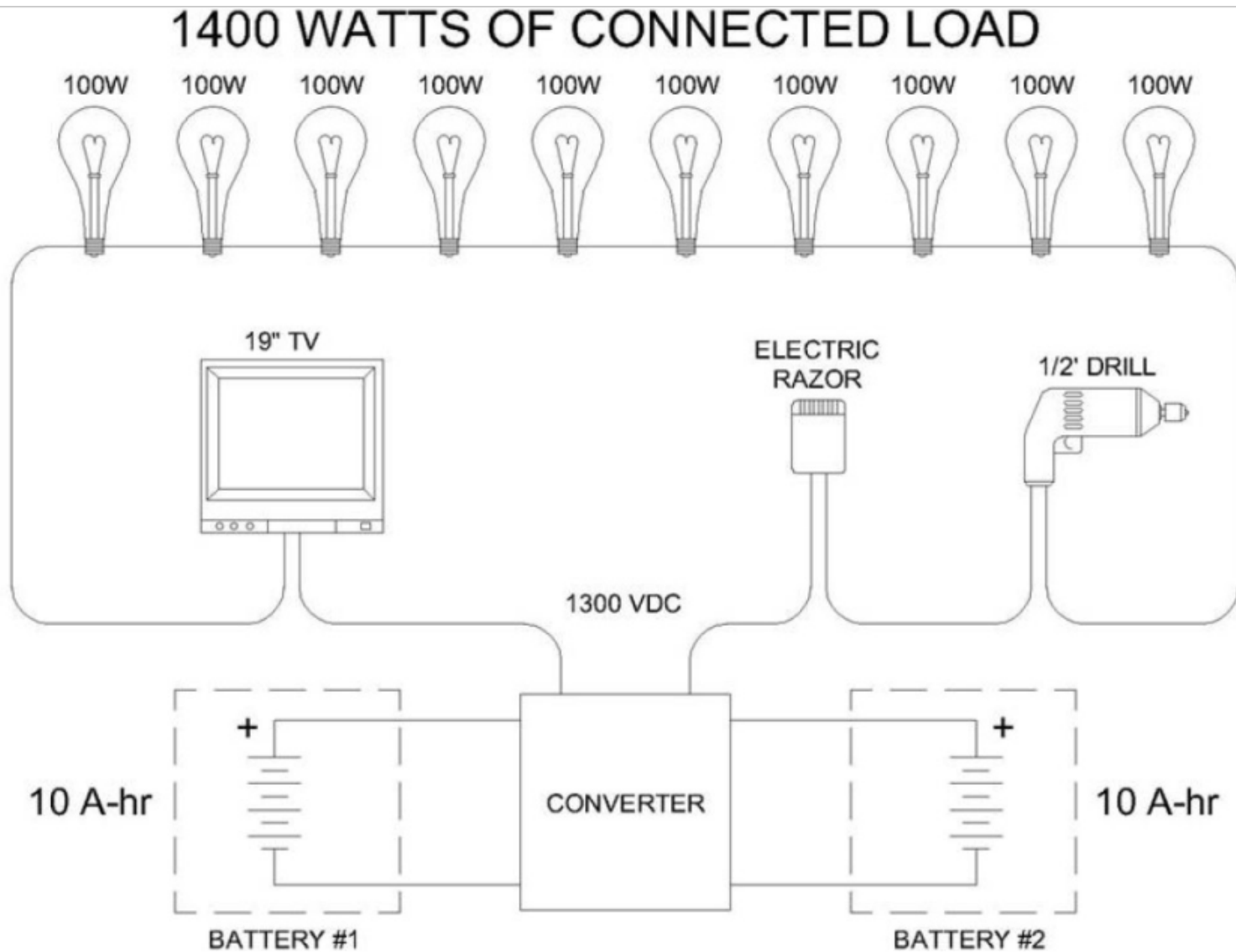
FIG. 1 THE GRAY MOTOR PATENT 3,890,548
JUNE 17, 1975

PROPOSED WIRING OF OPPOSING ELECTROMAGNETS

Hidden Secret #3

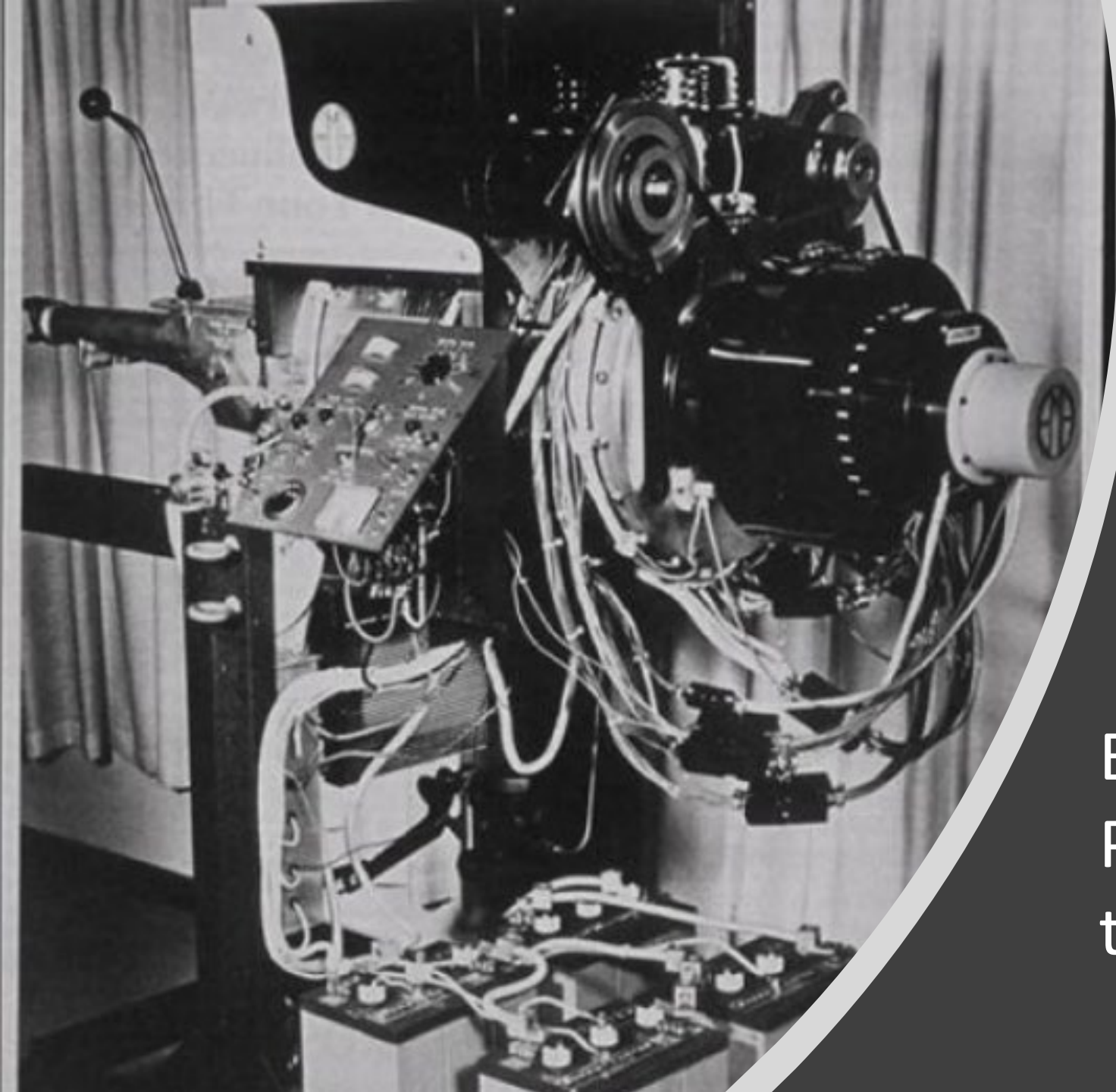
The 2nd Battery

In the beginning two lead
acid batteries were used
and probably required



E.V. GRAY ELECTROSTATIC GENERATOR DEMONSTRATION

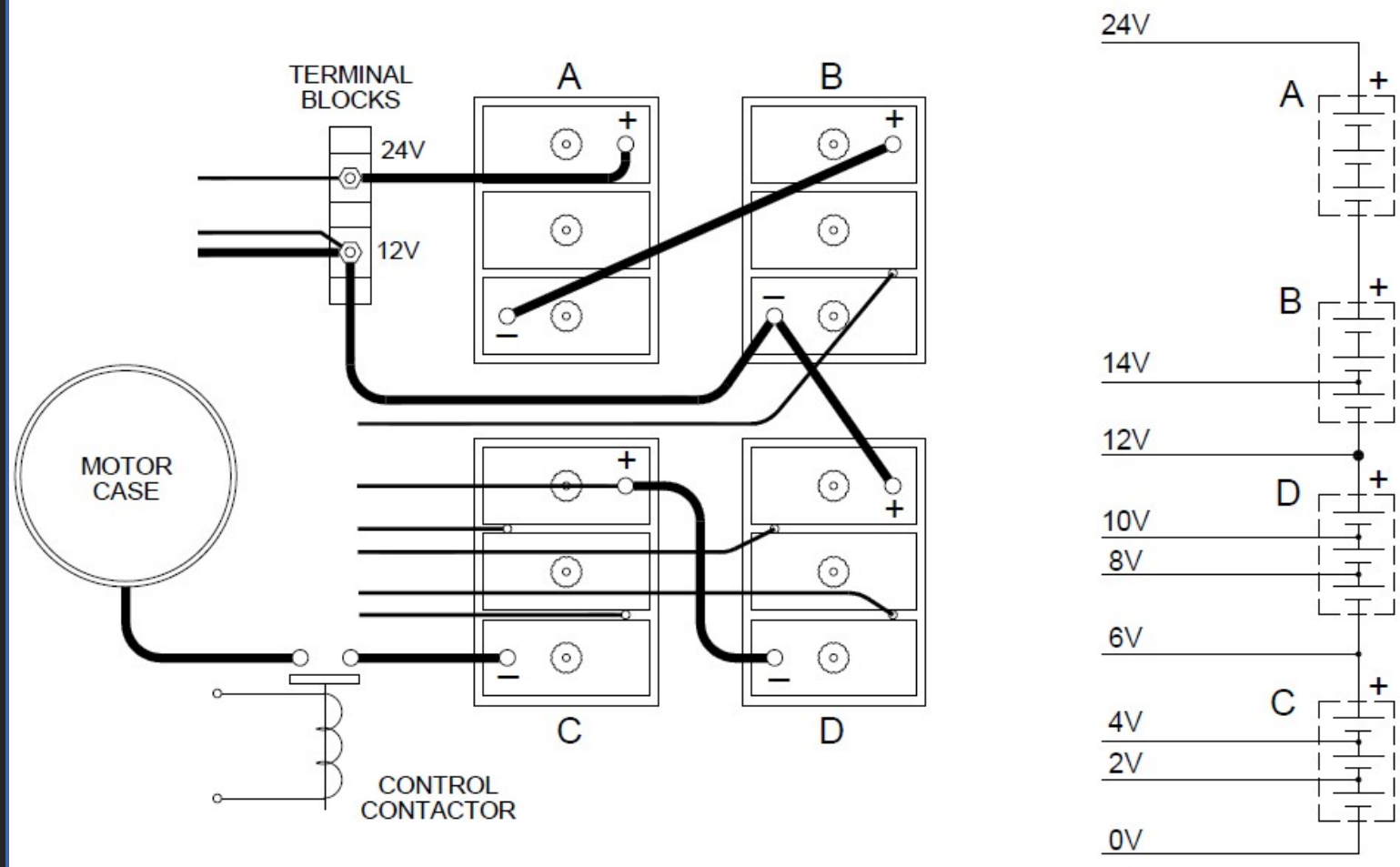
It was this little device that brought in the initial investment money to build the later Motors



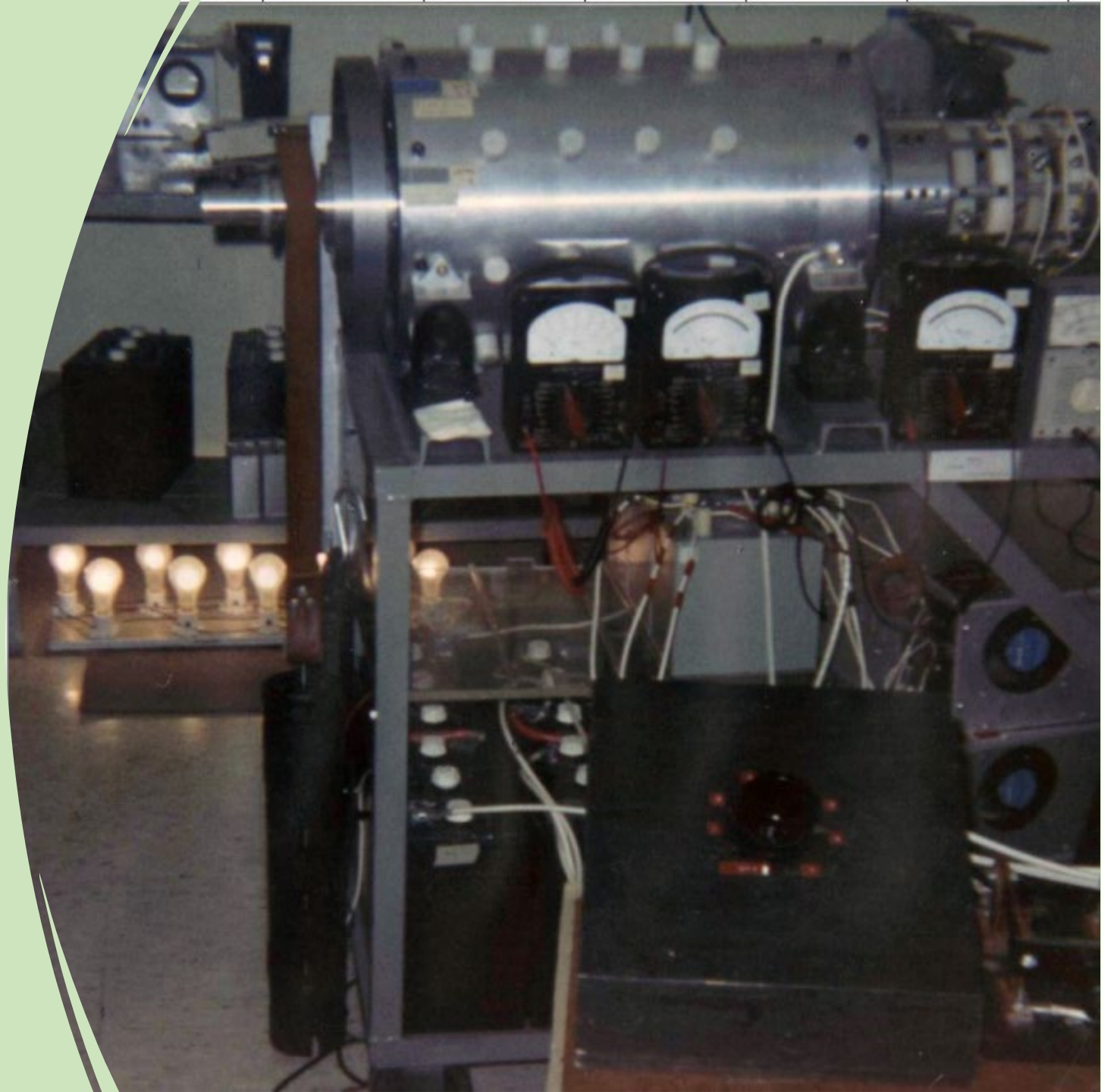
EMA4 Battery Layout - Notice no Battery shield

Because at the higher
Power Levels they started
to Explode.

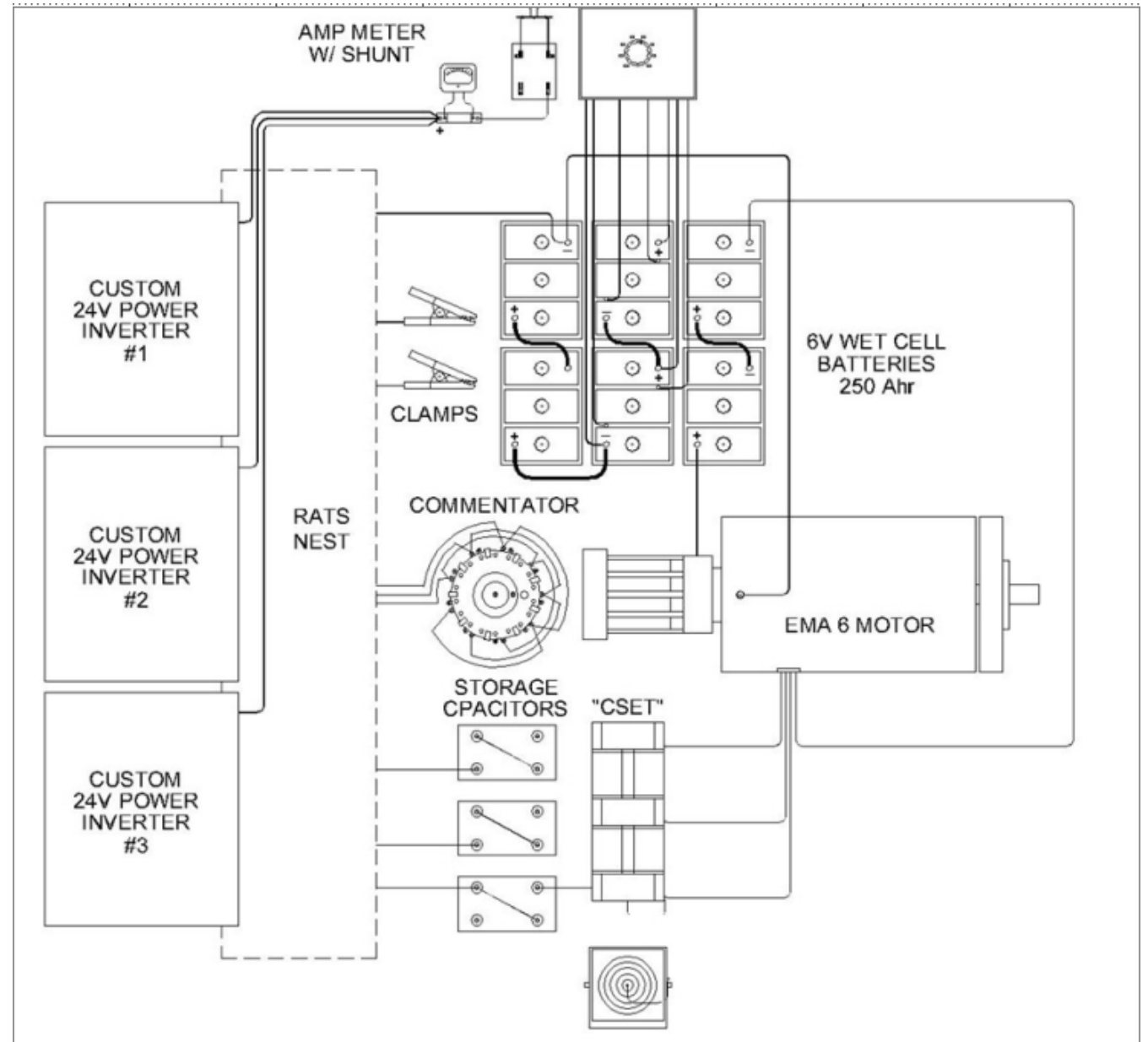
EMA4 Battery wiring - not a symmetrical system



The EMA6 Battery Set

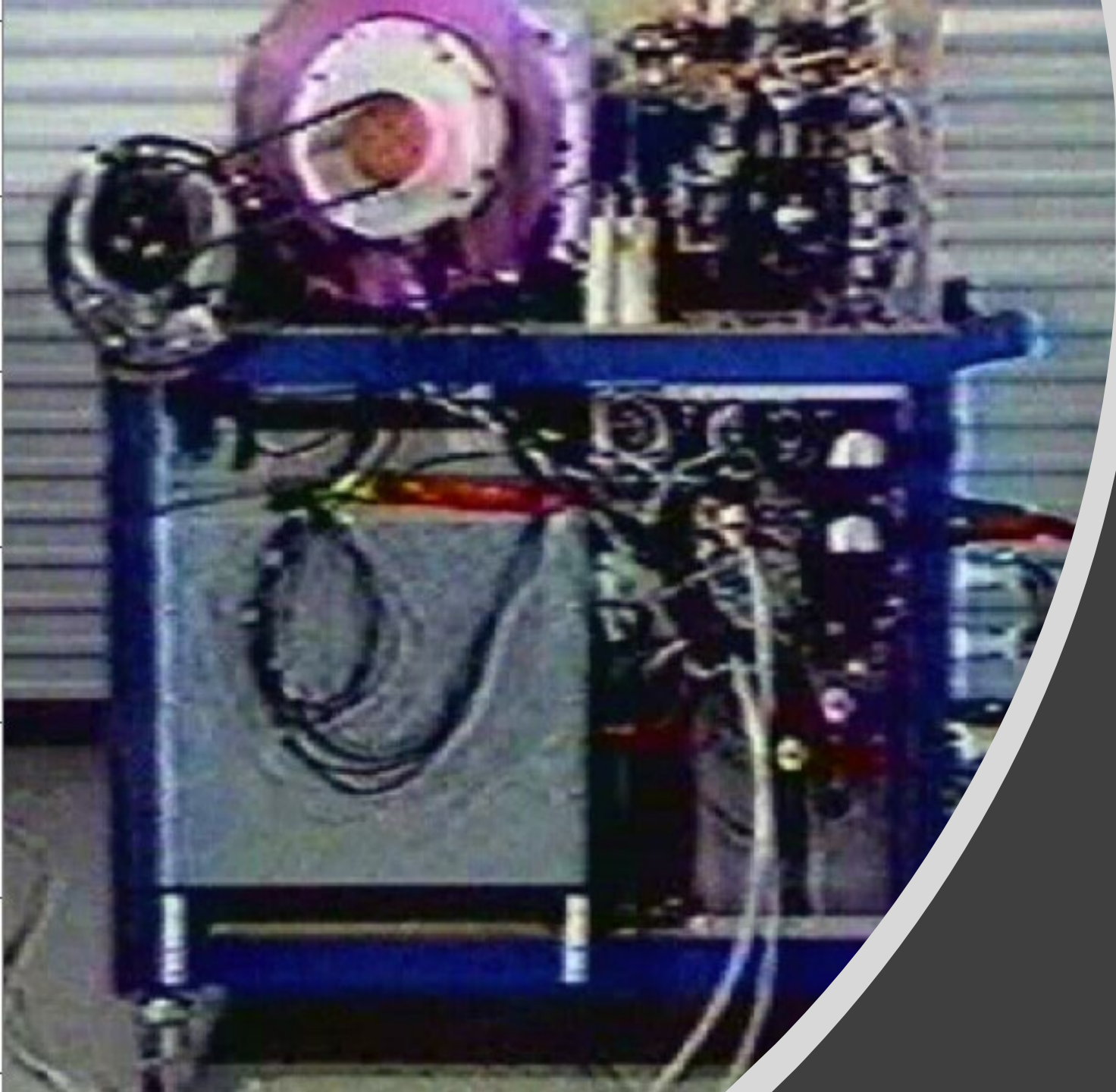


EMA6 Battery Wiring - Similar to the EMA4



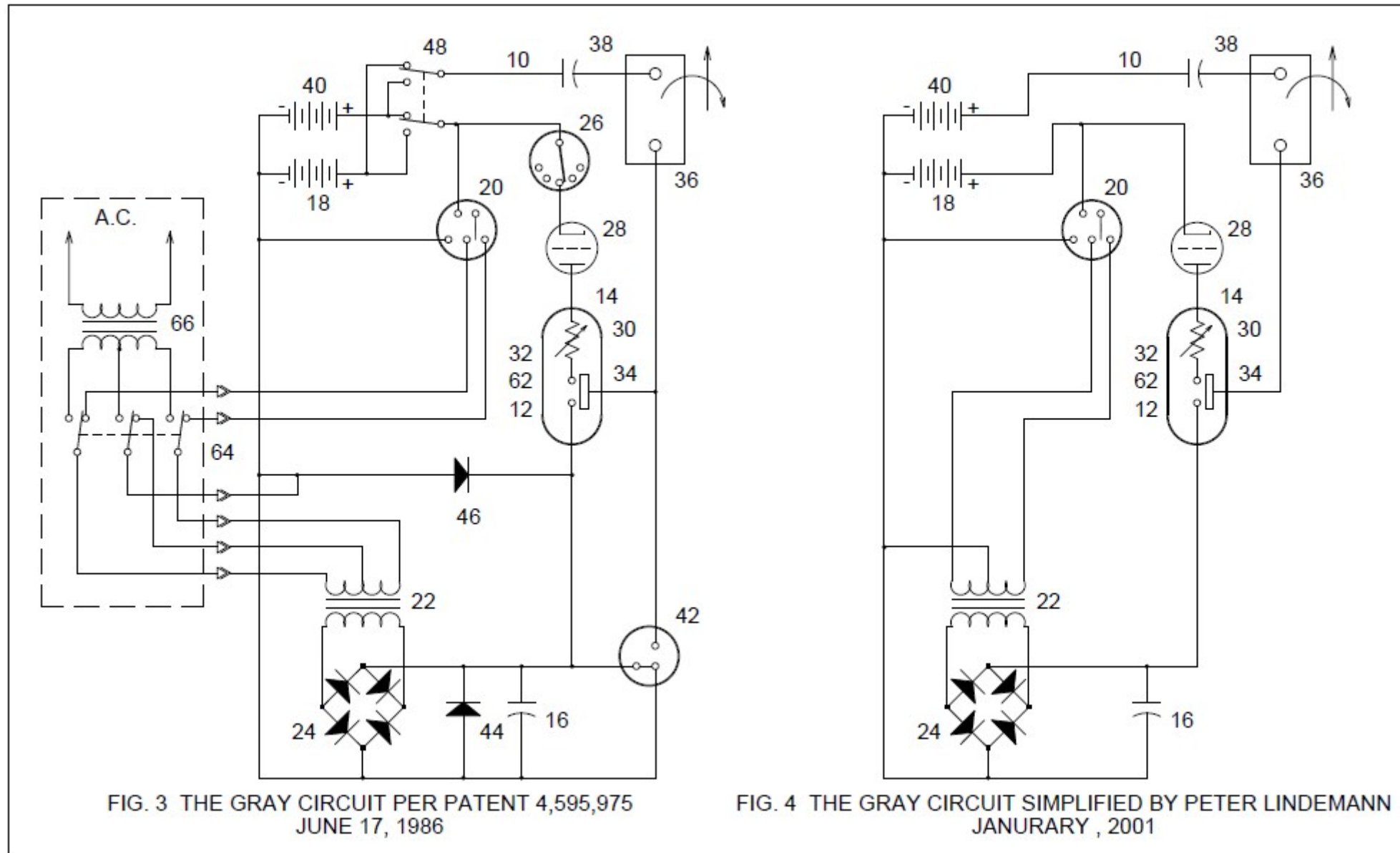
Gold Motor Layout -
After retrofit. About 6
each 6-volt batteries
with some visible inter
voltage taps.

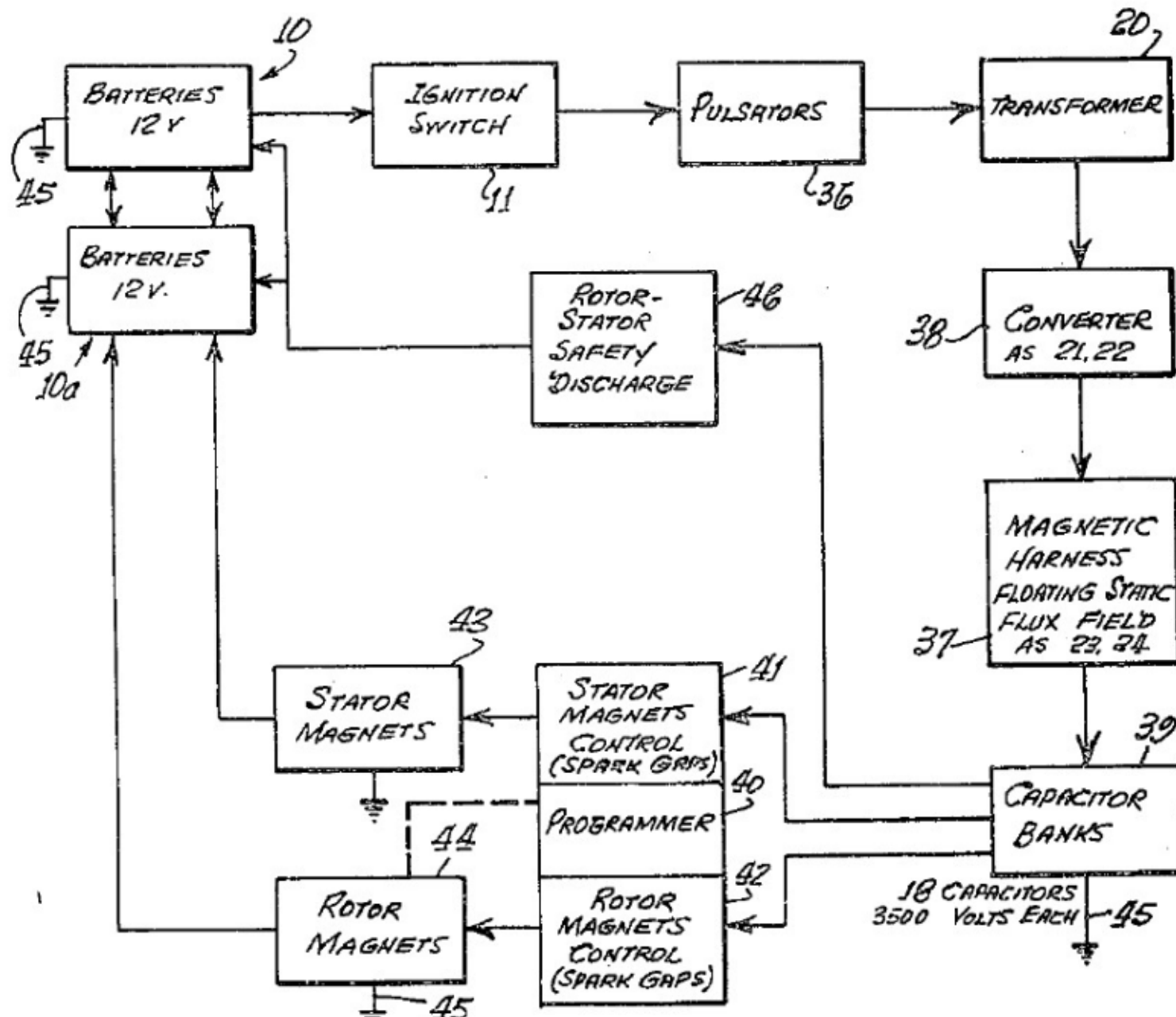




Purple Motor
Batteries - Can't be
seen from this view
- covered by 5 kV
Power Inverter

Disclosed Battery connections from 1986 patent. Suggests equal battery sets are cycled in and out. **Not!**





Yet the same 1975 motor patent shows a more complex function of battery operation

Hidden Secret #4

Iron Wire

According to Kenneth
Hawkins Mr. Hackenburger
used Iron Wire

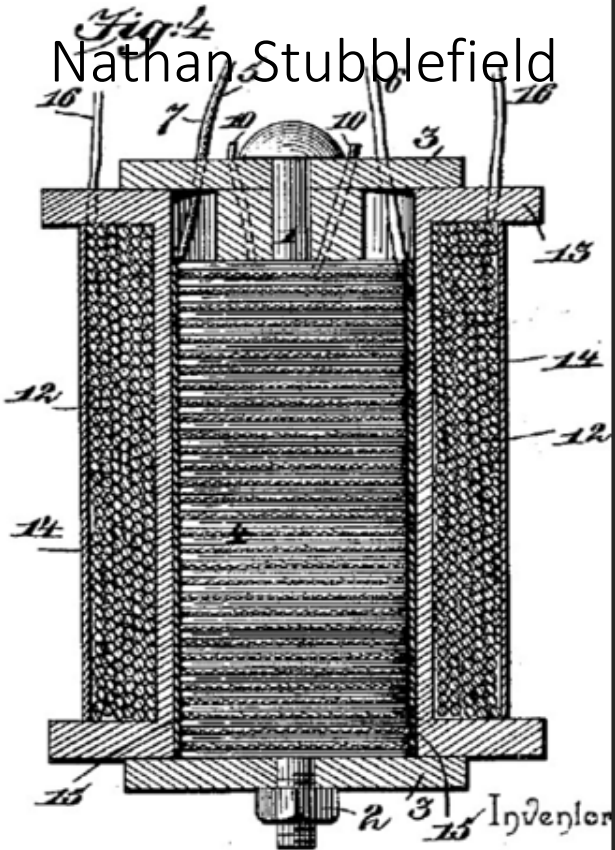
#122120

19 Gauge Dark Annealed
Stovepipe Wire
50 Feet

Oscuro u Recocido Calibre 19
Alambre Utilidad
15.24 MTS

Made in Taiwan, Hecho en Taiwan

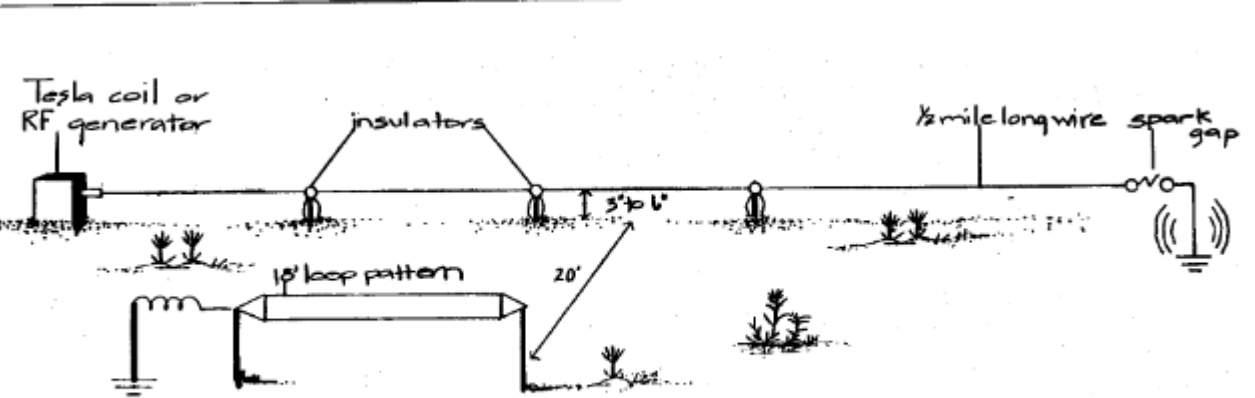
Fig. 4
Nathan Stubblefield



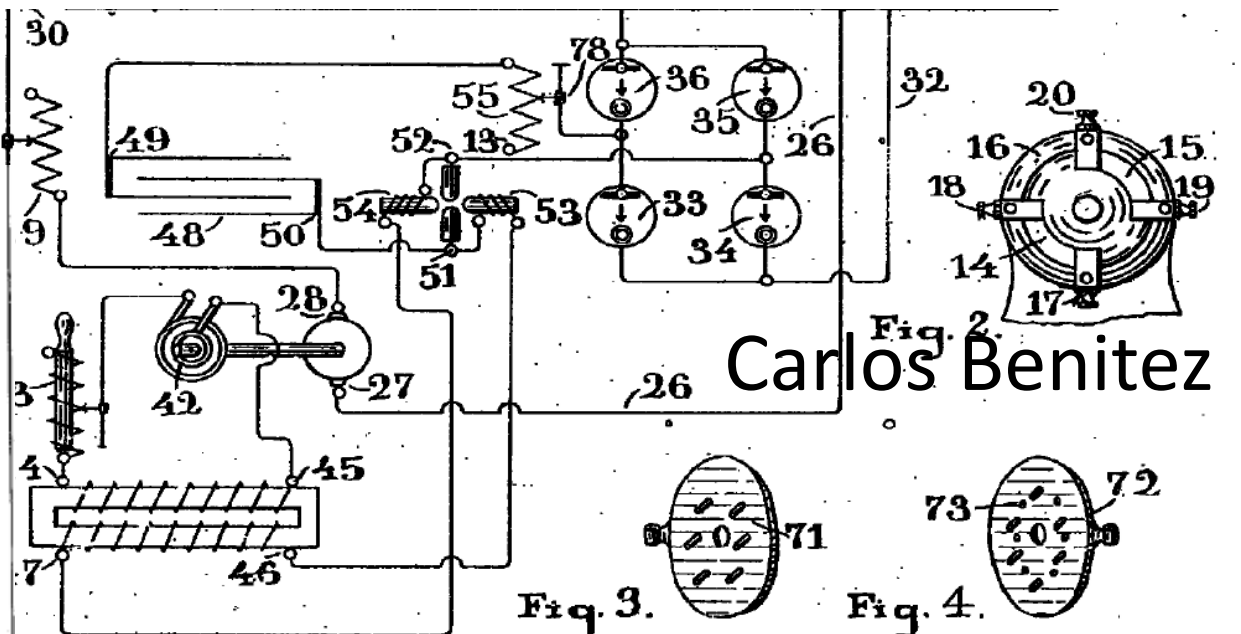
A few other notable historical Free Energy Pioneers have also Employed Iron wire as part of their apparatus.



Nathan Stubblefield



Wyatt Prentice





Its an idea
worth
Exploring