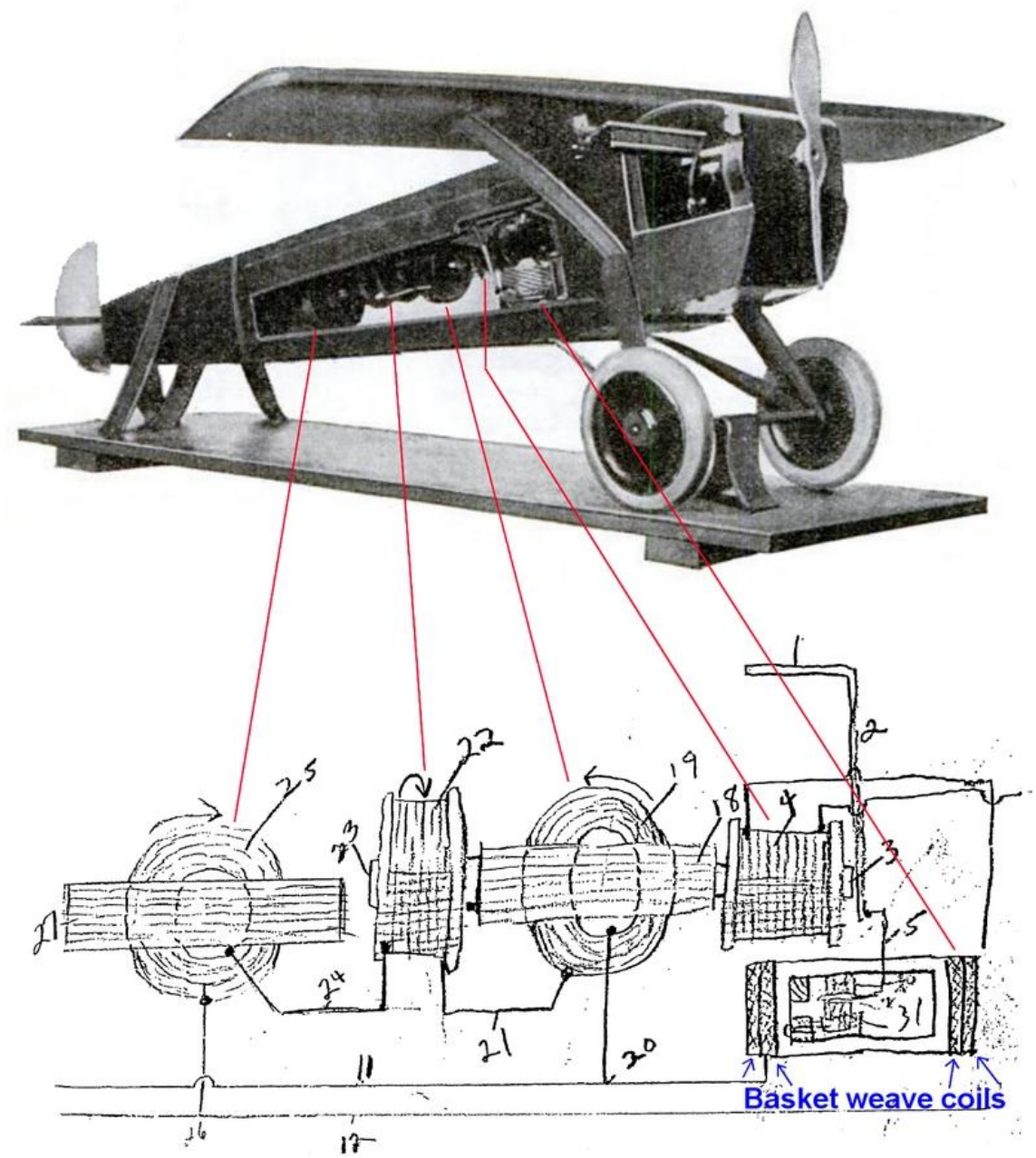
Hendershot MkI / MkII Accumulated Information

The following information was gathered from many of the original source documentation that are available on Lester J. Hendershot. Using the picture below of the toy airplane that contains the MkI version and the picture of Mark sitting on his father's lap of the MkII version I took a Wild Ass Guess (WAG) as to what size and shape of each of the components. There are many unanswered questions (example: Basket Weave or Honey Comb coil) but this is my first attempt to build the MkI version of the Hendershot Generator.



First Assumption: The toy plane that included the MkI version was a toy metal plane of the era when Hendershot constructed it. He modified the plane based on a dream and allowed his son to play with it anytime he wanted. This version would only work when aligned with the earth's magnetic poles.

Second Assumption: The toy plane that included the MkII version was about the same size as the first plane because all components were the same except for the coils within the basket weave. I also believe that this plane could actually fly and was demonstrated at the local air force base. (I could be wrong)

Methods: Taking the picture and perspective I have come up with the following size and shape data and assumptions (WAGs).

Object:

#001: small collector preferably a small metallic plate horizontally disposed and having a downwardly extending flexible strip #002. (approx. 3" long X 1" wide)

#002: flexible strip of magnetic material terminating opposite core #003. (approx. 3" long X 1 / 4" wide.

#003: metal core for coil #004. This core is soldered to a set of small transformer plates #018 and forms an extension of these plates. Opposite side of soldered core #023. Coil #003 and coil #022 are wound in same direction.

#004: coil with core #003. First coil to be attached. Each end of winding are connected to coil #013 and coil #014. This coil is connected in series with coil #013 and then series with coil #014 and series with resistor #017 in a permanently closed circuit. Looking from the horizontal side view the North/South axis is facing left/right when viewed. This coil is located or extends across one side of coil #008 or the two coils #008a and #008b and also across the coil #006 or coil #0029 depending if MkI or MkII is being constructed.

#005: copper connecting wire that is soldered to #002 on one end and soldered to middle of the inner winding or layer of second coil #006. May or may not extend to the collector proper #008.

#006: coil residing in center of collector coil #008. Composed of XX turns of AWG #XX insulated copper wire. Wrapped on core #007. Preferably parallel to the first coil #004. One end of coil is connected to connecting wire #009 and the other end is connected to connecting wire #010

#007: permanently magnetic core for coil #006

#008: coil that has two windings. Composed of XX turns of AWG #XX copper wire. Windings being cross wound, honeycomb style (basket weave?). The end of one winding is connected to connection wire #009. Of the same winding the other end is connected to power line terminal #011. The second winding has one end connect to the connection wire #010. Of the same

winding the other end is connected to power line terminal #012. (see modifications below for MkI and MkII differences).

#009: copper connecting wire attached to one end of coil #006. The other end is connected to one of the windings of coil #008.

#010: copper connecting wire attached to one end of coil #006. The other end is connected to one of the windings of coil #008.

NOTE: The ends of the winding #6 are each connected by connecting wires #9 & #10 respectively, to an end of one of the crossed windings of the honey-comb coil #8 and the other ends of the windings are then connected to the power lines or terminals #11 & #12 respectively. Coils #013 and #014 are very high resistance

#011: Power line terminal

#012: Power line terminal

#013: coil composed of 100 - 200 turns of AWG #XX copper wire. This coil matches coil #014 but wound in opposite direction. Connected to one end of coil #004. Wrapped on core #015. Connected in series with coil #004 and coil #014 and resistor #017. Placed in the structure made. This coil is parallel to coil #008. Located on one side of the longitudinal vertical central plane of the apparatus. Coil #014 on other side. This coil is considerable resistance.

#014: coil composed of 100 – 200 turns of AWG #XX copper wire. This coil matches coil #013 but wound in opposite direction. Connected to one end of coil #004. Wrapped on core #016. Connected in series with coil #004 and coil #013 and resistor #017. Placed in the structure made. This coil is parallel to coil #008. Located on one side of the longitudinal vertical central plane of the apparatus. Coil #013 on other side. This coil is considerable resistance

#015: Soft iron core for coil #013.

#016: Soft iron core for coil #014.

#017: resistor connected between one end of coil #013 and one end of coil #014. Value of XX Meg ohms. Connected in series with coil #013 and coil #014 and coil #004. Placed in the structure made.

#018: set of small laminated transformer plates in a square with the center open to receive coil #019. Looking from the horizontal side view the North/South axis is facing toward the viewer.

#019: fine wire coil composed of XX turns of AWG #XX copper wire. This coil has no core, just air. Inner end of coil is connected to power line terminal #11 at connection point #020. Outer end of coil is connected to wire #021. Looking from the horizontal side view this coil is wound counter clock wise or towards coil #022. This horizontal side view has coil #004 to the right and coil #022 to the left.

#020: connecting point for inner wire end of coil #019 and power line terminal #011.

#021: copper connecting wire. One end is connected to the outer end of coil #019. The other end is connected to third coil #022.

#022: coil composed of XX turns of AWG #XX copper wire. The core if used for this coil is #023 which is soldered to #018. Inner end of winding is facing toward coil #019. Windings end on the opposite side facing coil #025. Unknown winding direction. Outer end of coil is connected to coil #025 using connecting wire #024. This is the third coil.

#023: metal core for coil #022. This core is soldered to a set of small transformer plates #018 and forms an extension of these plates opposite side from soldered core #003. Core #023 can be omitted but it does keep the coils aligned. Looking from the horizontal side view the North/South axis is facing left/right when viewed.

#024: copper connecting wire. One end is connected to outer end of coil #022. The other end is connected to the inner end of coil #025.

#025: fine wire coil composed of XX turns of AWG #XX copper wire. This coil has no core, just air. Inner end of coil is connected to connecting wire #024. This coil is the except same as coil #019 but placed within its small transformer plates of #27 the direction of the windings are in the opposite direction as coil #019. Looking from the horizontal side view this coil is wound clock wise of towards coil #022. This horizontal side view has coil #022 to the right and no other object to the left. The outer end of this coil is connected to power line #012 at connecting point #026.

#026: connect point for outer wire end of coil #025 and power line terminal #012.

#027: set of small laminated transformer plates in a square with the center open to receive coil #025. These plates are not connected to any part of the other objects but is in the same plane as core #018 and next to core but not touching core #023. Looking from the horizontal side view the North/South axis is facing toward the viewer.

NOTE: A lamp or small motor connected across the ends of the power lines terminals #011 & #012 will operate continuously when the longitudinal axis of device is directed north and south, and will cease to produce power when deviated from the north & south direction.

NOTE: In order to permit the structure to operate in any direction which its axis is placed a MkII modification to the structure of coil #8 and the parts within it have been provided; all other parts-remaining same.

#005: connecting wire to extension strip #002 of plate #001. The other end has been changed to connect to a small pivoted soft iron plate #028 within coil #029.

#008a: coil composed of XX turns of AWG #XX copper wire. This coil is a single wire cross wound. One end of this coil is connected by wire #009 to one end to power line terminal #011.

#008b: coil composed of XX turns of AWG #XX copper wire. This coil is a single wire cross wound. This coil surrounds coil #008a. Same size wire and number of turns as coil #008a. One end of this coil is connected by wire #010 the other end to power line terminal #012.

#009: copper connecting wire attached to one end of coil #008a. The other end to coil #029.

#010: copper connecting wire attached to one end of coil #008b. The other end to coil #029.

#028: pivoted soft iron plate within coil #029

#029: coil composed of XX turns of AWG #XX copper wire. This coil is short. One end is connected to connecting wire #009 and the other end is connected to power line terminal #011. This coil replaces coil #006 and is located within coil combo #008a and #008b. Must be parallel with coil #004.

NOTE: The extension strip #2 of plate #1 is connected by wire #5 to a small pivoted soft iron plate #28 within a short coil #29 of X turns of no. X wire, between brass end plates #30 and is held in a soft iron yoke #31 by a screw #32 that passes through one pole end of a ring magnet #33. The screw #32 serves to hold the yoke #31 to the magnet po1e end and at the same time holds the coil #29 in the yoke #31. The plate#28 is pivoted In one of the brass end plates #30.

#030: brass end plates (2 of them??)

#031: soft iron yoke to hold coil #029

#032: screw that passes through one pole end of ring magnet #033 and holds #030 and #031 in place

#033: ring magnet.

NOTE:

1. Collector – honey comb coil of two windings each having a end connected to power line terminals and having the other ends connected a pair of oppositely wound coils parallel to the honey comb coil and connected in series with first coil, a fine wire coil with transformer iron surrounding it, a third coil, a second fine wire coil connected all in series.

Hendershot Patent Claims:

1. In an electrical apparatus,
   - a collector(#001),
   - a coil(#004) having a core(#003) - one end of which is in attracting relation to a portion(#002) of said collector(#001),
   - a honey-comb coil(#008) having two windings(#008a & #008b) connected to power terminals(#011 & #012),

- a second coil(#006) in the honey-comb coil(#008) each end of which is connected to one of the windings(#008a & #008b) of the honey-comb coil(#008), means to send electricity from the collector(#001) to said second coil(#006),
- a pair of oppositely wound coils(#013 & #014) parallel to the honey-comb coil(#008) & connected in series with the first coil(#004),
- a fine wire coil(#019), transformer iron(#018), surrounding the fine wire coil(#019),
- a third coil(#022),
- a second fine wire coil(#025), transformer iron(#027) surrounding the same,
- said third coil(#022) & fine wire coils(#019 & #025) connected in series across the line(#011 & #012).

2. In an electrical apparatus,
- a collector(#001) having an extension(#002),
- a coil(#004) having a core(#003) one end of which is in attracting relation to said extension(#002),
- a honey-comb coil(#008) having two windings(#008a & #008b) perpendicular to the coil(#004) & its(#008) ends connected to power terminals(#011 & #012),
- a second coil(#006) within the honey-comb coil(#008), each end of which is connected to the opposite end of one of the honey-comb windings(#008a & #008b),
- a permanent magnet(#007) is or in inductive relation to said second coil(#006), means to send current from the collector(#001) to the second coil(#006),
- a pair of oppositely wound coils(#013 & #014), said first coil(#006) connected in series between said pair of oppositely wound coils(#013 & #014),
- a fine wire coil(#019), transformer iron(#018) surrounding said coil(#019) having a continuation that forms the core(#003) of the first coil(#004),
- a third coil(#022) between which and the first coil($004) said transformer iron(#018), and fine wire coil(#019) is arranged
- a second fine wire coil(#025) wound in an opposite direction to the first fine wire coil(#019), transformer iron(#027) surrounding the second fine wire coil(#025),
- said fine wire coils(#019 & #025) being connected in series through the third coil(#022) & across the power terminals(#011 & #012),
- and the fine wire coils(#019 & #025) arranged in rectangular relation to the first(#004) & third(#022) coils.

3. In an electrical apparatus,
- a collector(#001),
- a coil(#004) having a core(#003) one end of which is in attracting relation to a portion of said collector(#001),
- a honey-comb coil(#008) having two windings(#008a & #008b) connected to power terminals(#011 & #012),
- a second coil(#006) in the honey-comb coil(#008) each end of which is connected to one of the windings(#008a & #008b) of the honey-comb coil(#008),
- a pair of oppositely wound coils(#013 & #014) parallel to the honey-comb coil(#008) & connected in series with the first coil(#004),
- a resistance(#017) between said oppositely wound coils(#013 & #014),
- a fine wire coil(#019), transformer iron(#018) surrounding the fine wire coil(#019),
- a third coil(#022),
- a second fine wire coil(#025), transformer iron(#027) surrounding the same(#025),
- said third coil(#022) & fine wire coils(#019 & #025) connected in series across the line(@011 & #012).

4. In an electrical apparatus,
- a collector(#001),
- a coil(#004) having a core(#003) one end of which is an attracting relation to a portion(#002) of said collector(#001),

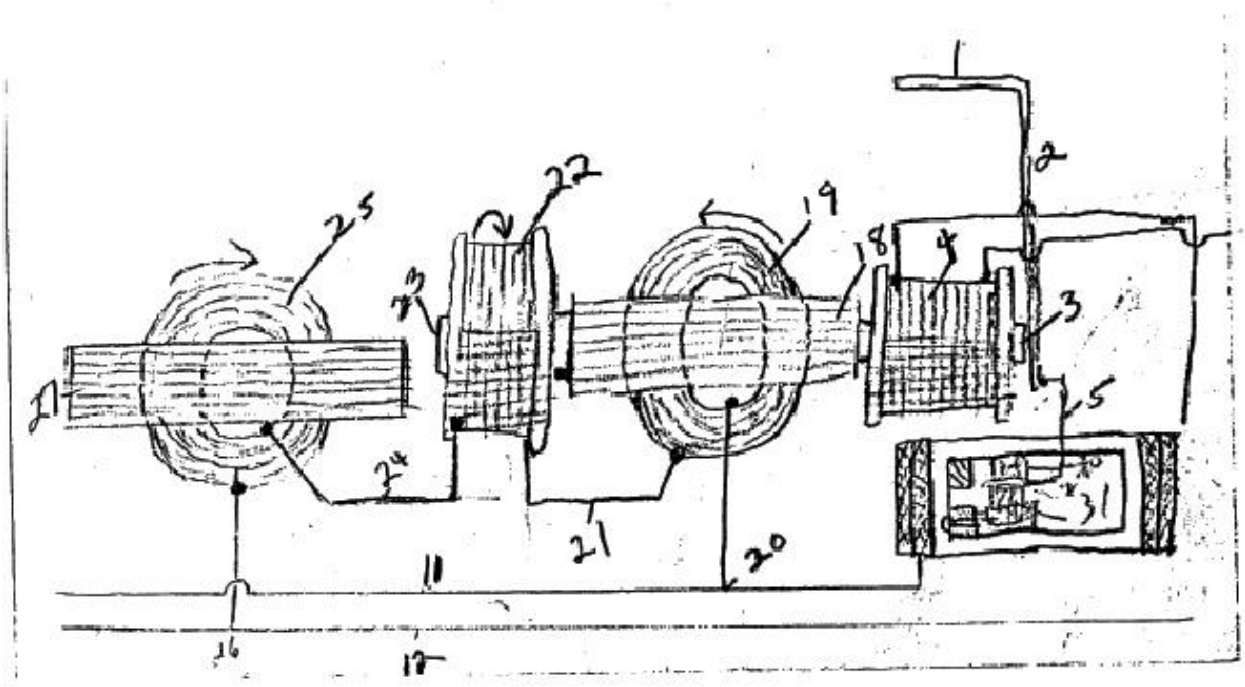
- a honey-comb coil(#008) having two windings(#008a & #008b) each, connected at one end to power terminals(#011 & #012),
- a second coil(#006) in the honey-comb coil(#008) traverse thereto and parallel to the first coil(#004) & connected to the other ends of the honey-comb windings(#008a & #008b),
- a permanent magnet(#007) in the inductive relation to said second coil(#006) means to send current from the collector(#001) to said second coil(#006),
- a pair of oppositely wound coils(#013 & #014) parallel to the honey-comb coil(#008),
- a resistance(#017) between the oppositely wound coils(#013 #014),
- said coils(#013 & #014) and resistance(#017) included in series in a closed circuit between the ends of the first coil(#004),
- a fine wire coil(#019), laminated transformer iron(#018) surrounding said fine wire coil(#019) but not passing there through and having an extension that forms the core(#003) of the first coil(#004),
- a third coil(#022) between which and the first coil(#004) said transformer iron(#018) and fine wire coil(#019) is arranged,
- the first & third coils(#004 & #022) being wound in the same direction,
- a second fine wire coil(#025) wound in opposite direction to the first fine wire coil(#019), laminated transformer iron(#027) surrounding the second fine wire coil(#025) but not passing there through said third coil(#022) connected between the two fine wire coils(#019 & #025) in series across the power terminals(#011 & #012).

5. In an electrical apparatus,
- a collector(#001),
- a coil(#004) having a core(#003) one end of which is in attracting relation to a portion(#002) of said collector(#001),
- a honey-comb coil(#008) having two windings(#008a & #008b) each connected to a power terminals(#011 & #012),
- a ring magnet(#033) in the honey-comb coil(#008), Mk2 design
- a second coil(#029) in the magnet(#033) and connected in series between the windings(#008a & #008b) of the honey-comb coil(#008),
- a pivoted oscillating member(#028) within the second coil(#029), means to conductively connect said collector(#001) and member(#028),
- a pair of oppositely wound coils(#013 & #014) adjacent the honey-comb coil(#008) & connected in series with said first coil(#004),
- a fine wire coil(#019), transformer iron(#018) surrounding the fine wire coil(#019),
- a third coil(#022),
- a second fine wire coil(#025), transformer iron(#027) surrounding the last coil(#025),
- said third coil(#022) & fine wire coils(#019 & #025) connected in series across the power terminals(#011 & #012).

6. In an electrical apparatus,
- a collector(#001),
- a coil(#004) having a core(#003) in attracting relation to said collector(#001),
- a honey-comb coil(#008) having two windings(#008a & #008b) each connected to a power terminals(#011 & #012),
- a ring magnet(#033) in the honey-comb coil(#008),
- a second coil(#029) in the magnet(#033) whose axis is at right angles to the axis of the honey-comb coil(#008),
- a pivoted oscillating member(#028) within the second coil(#029), means to conductively connect the collector(#001) and member(#028),
- a pair of oppositely wound coils(#013 &#014) adjacent the honey-comb coil(#008) parallel thereto & connected in series with the first coil(#004),
- a fine wire coil(#019), transformer iron(#018) surrounding the fine wire coil(#019),
- a third coil(#022),

- a second fine wire coil(#025). transformer iron(#027) surrounding the last coil(#025),
- said third coil(#022) connected in series between the fine wire coils(#019 & #025) across the power terminals(#011 & #012).

7. In an electrical apparatus,
- a collector(#001) substantially horizontally disposed and having a substantially vertical extension(#002),
- a coil(#004) having a core(#003) in attracting relation to said extension(#002),
- a honey-comb coil(#008) having two cross wound windings(#008a & #008b) each of which is connected at one end to power terminals (#011 & #012),
- a ring magnet(#033) within the honey-comb coil(#028),
- a yoke shaped extension(#031) connected to one of the ends of said magnet(#033),
- a second coil(#029) held in said extension(#031) parallel to the first coil(#004),
- a soft iron member(#028) pivoted in the second coil(#029),
- means to electrically connect said extension(#002) and member(#028) while permitting independent movements thereof,
- a fine wire coil(#019), laminated transformer iron(#018) surrounding the fine wire coil(#019) and having an extension that form the core (#003) of the first coil(#004),
- the third coil(#022) arranged at right angles to the first fine wire coil(#019),
- a second fine wire coil(#025) wound in a direction opposite to the windings of the first fine wire coil(#019) & parallel thereto(#025), laminated transformer iron(#027) surrounding the last coil(#025),
- said third coil(#022) arranged between the fine wire coils(#019 & #025) in series and in series connected across the line terminals(#011 & #012).



Mk1 design only

Possible wire sizes: AWG28(0.0136”), AWG24(0.0213”), AWG20(0.0334”)

Coil #019, Coil #025 used AWG28

Coil #004, Coil #006, Coil #013, Coil #014, Coil #022 used AWG24

Coil #008 used AWG20

Possible coil length based on measurement (below):

#004 – 7 / 8 “
#008 – 1 1 / 8” dia., 9 / 16” len
#019 - 3 / 4”
#022 – 3 / 8”
#025 – 5 / 16”

Coils:

Coil	Core	ID	OD	Len	Turns	AWG
#004	#003	3 / 16	1 / 2	5 / 8 (7 / 8)		
#006	#007	1 / 4	3 / 4	1”		
#008	air-weave	1 15 / 16	2”	5 / 8 (9 / 16)	12	20 insulated
#013	#015	1 / 8	1 / 2	5 / 8		
#014	#016	1 / 8	1 / 2	5 / 8		
#019	air	3 / 16	1”	1” (3 / 4)		
#022	#023	3 / 16	3 / 4	1 / 2 (3 / 8)		
#025	air	3 / 16	1”	1” (5 / 16)		

NOTES:

* Coils #008, #013, #014 are in line and have a total distance of approx. 3 inches.

* Coils #008, #013, #014 all have the same height.

* Coil #008 might be closer to 3 inches in the Mk2 version. Basket weave pitch 6.316 degrees.

* Coil #006, Core #007 is situated in the exact middle of coil #008.

* Coil #006 might resonate @ 500K? Short coil, single layer, heavy wire?

* Core #007 is a round bar magnet, approx. 2 / 3rds the inside diameter of coil #008?

* Core #003, Core @023 soft iron soldered to long side #018 in middle on opposite sides.

* Core #015, Core #016 soft iron to receive bobbin wound coils #013 and #014.

* Coil #004, Coil #019 are wound bobbin style

* Coil #013, Coil #014 are of considerable resistance

* Coil #019, Coil #025 have many turns of fine wire.

*Coil #022 is bobbin wound with heavier wire that coil #019 and coil #015

Mk2 design modifications:

Coil #006 has been replaced.

Coils:

Coil	Core	ID	OD	Len	Turns	AWG
#029	air					

NOTE:

- Core for coil #029 is outer yoke #031 and ring magnet #033

Toy Airplane Measurements:

Size of opening, etc.

The wood plate that the plane is mounted on is the constant at 1/4" thick. Starting at the front wheel axis the following measurements were determined. (all measured in inches)

name	A	B	C	D	E
wood	0.215	0.210	0.195	0.178	0.161
%ofConst	86%	84%	75%	64%	50%
multi	1.14	1.16	1.25	1.36	1.50
size	0.245	0.244	0.244	0.242	2.42
wheel size	1.750@1.14 1.995				
opening to plane		0.416 @1.16	0.380 @1.25	0.310 @1.36	0.265 @1.50

bottom size	0.666	0.475	0.422	0.400
opening top to bottom	1.100 @1.16	0.795 @1.25	0.585 @1.36	0.450 @1.50
size	1.276	0.994	0.796	0.675

distance		Comp	value	avg
right side to B	0.342	@1.16	0.397	0.397
B to C	1.010	@1.16 to @1.25	1.172 to 1.263	1.218
C to D	1.025	@1.25 to @1.36	1.281 to 1.394	1.632
D to E	0.660	@1.36 to @1.50	0.898 to 0.990	0.944
total length of opening				4.191

Coil Length:

#008	@B	0.94	@1.16	1.090	1.090	diameter
#008	@B	0.505	@1.16	0.586	0.586	len
#004	B to C	0.700	@1.16 to @1.25	0.812 to 0.875	0.844	
#019	@C	0.570	@1.25	0.713	0.713	
#022	C to D	0.215	@1.25 to @1.36	0.269 to 0.292	0.281	
#025	@D	0.420	@1.36	0.571	0.571	

1. Wood mounting plate: 1/4" X 3 1/2" X 12"
   a. wood legs: 3/8" X 3/4" X 3"
2. Wheel diameter: 2"
3. hole in plane side(lf-rt) 5/8" to 1" then jumps to 1 1/4" above coil #008
4. bottom of plane to opening 1/2"
5. wheel base is approx. 2 1/2"
6. opening length 4 1/8"

Possible selected coil lengths:
#004 – 7 / 8 “
#008 – 1 1 / 8” dia., 9 / 16” len
#019 - 3 / 4”
#022 – 3 / 8”
#025 – 5 / 16”

Construction: (all measurements are in inches)

Two identical transformers:

Transformer Iron:	end plate	E-plate
H:	0.163	0.828
W:	1.103	1.103
L:	0.014	0.010

#1 has 31 end plates and 34 E-plates
#2 has 33 end plates and 34 E-plates

Wire: Winding #1: dia.: 0.012, AWG #28 or #29, 80 turns, 15’ 3 1 \ 2”, 1 ohm
Winding #2: dia.: 0.005, AWG #36, #37 or #38, 1300 turns, 250’ 4”, 121 ohms

Tape: two layers on outside of transformer, first is red and second is clear
Red tape layer between primary and secondary windings

Core:	ID	OD
H:	0.444	0.500
W:	0.333	0.387
L:	0.660	0.608

Two identical ferrite cores with attached threaded ends will be used to connect to the transform iron
Dia.: 0.238
Len: 1.175
Material: magnetic but none electrical, threaded stainless steel rod attached. dia.: 0.117

One universal drain with 2" PVC connection makes a perfect coil base for coil #8 approx. 3" in dia.
Finished dia. approx 2.770"
Wire for this coil is AWG #24 with insulation. Interleave wire when winding to give a basket weave or honeycomb look. Instead of wood dowels as the center to interleave wire I am using tie wire for fencing. This is a really good soft iron at the right dia. to wind around. This requires a number drill, #53 was a perfect fit.

Coil #004 was formed with a 1 / 4" center with a max OD for wire at 1 1 / 8". Each side can layer 7 / 16" or wire. The length of the wire area is approx. 15 / 16" long. The coil is 1 / 4" X 1 1 / 8" X 1". The end plates on the coil form are both 1 1 / 8" in dia. Approx. 1 / 8" in thickness.

Core #003 & Core #023 are made of ferrite material that is magnetic but is not electrical, cannot pass current through it. The size is approx. 1 / 4" in dia. and approx. 1 1 / 16" in length. The ferrite cores have a metal rod extending from one end and is threaded with 4 – 48 standard American fine threads. This rod is epoxy into the end of the ferrite core. The threaded end will be screwed into the side of transformer iron Core #018 to make a complete magnetic connection. This allows Cores #003, #018, #023 to act as a single magnetic unit.

Core #018 and Core #027 are made from the two identical transformers. Each E-plate had the center post removed so only a square could be made when reassembled. Two squares were made. On Core #018 a hole was drilled and taped on each side to install the ferrite cores to make a complete connected assembly.
Core #018 size - ID: width 0.667" X length 0.781" X height 0.415", OD: width 1.000" X length 1.126"
Core #027 size - ID: width 0.661" X length 0.777" X height 0.460", OD: width 1.000" X length 1.115"

Coil #019 was formed with a 1 / 4" center with a max OD for wire at 1 1 / 8". Each side can layer 7 / 16" or wire. The paper tube is approx 1 / 64 " thick. The paper tube is not a factor when winding. The length of the wire area is approx. 13 / 16" long. The coil is 1 / 4" X 1 1 / 8" X 13 / 16". The end plates on the coil form are both 1 1 / 8" in dia. Approx. 1 / 8" in thickness.

Winding for Coil #004: Form size: ID 0.324" X length 0.875". Direction is CW. Wire size is AWG #20. Form has 24 turns per layer. Approx. number of turns is

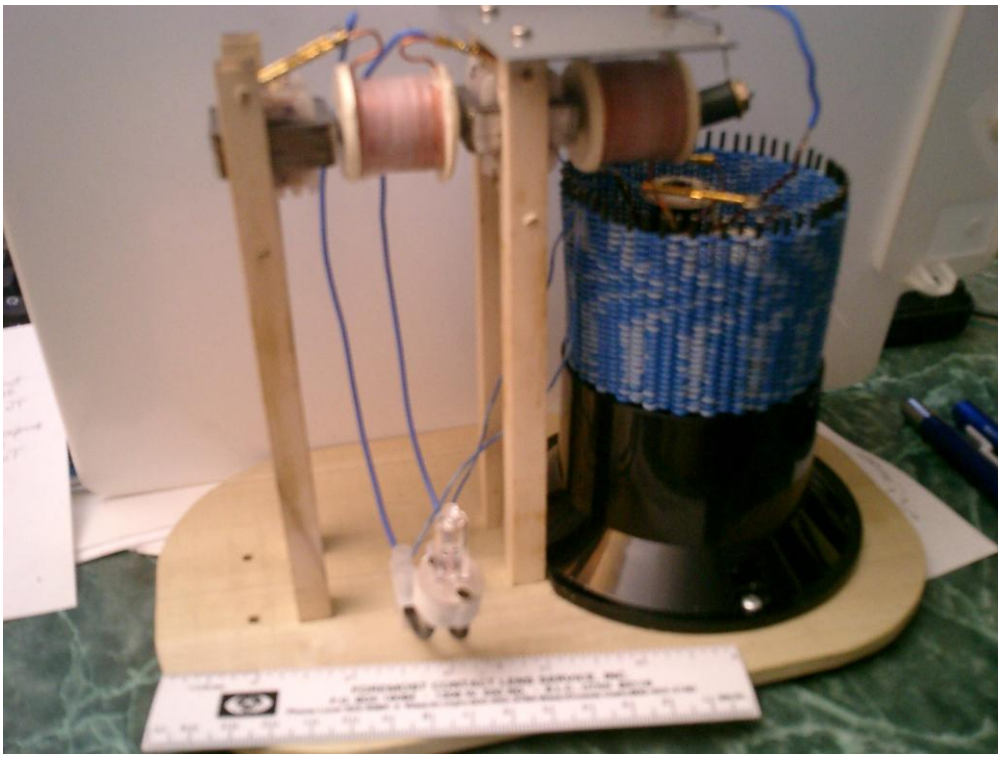
Winding for Coil #022: Form size: ID 0.280” X length 0.787”. Direction is CW. Wire size is AWG #20. Approx. number of turns is 180. 9 layers of wire wound on the form.

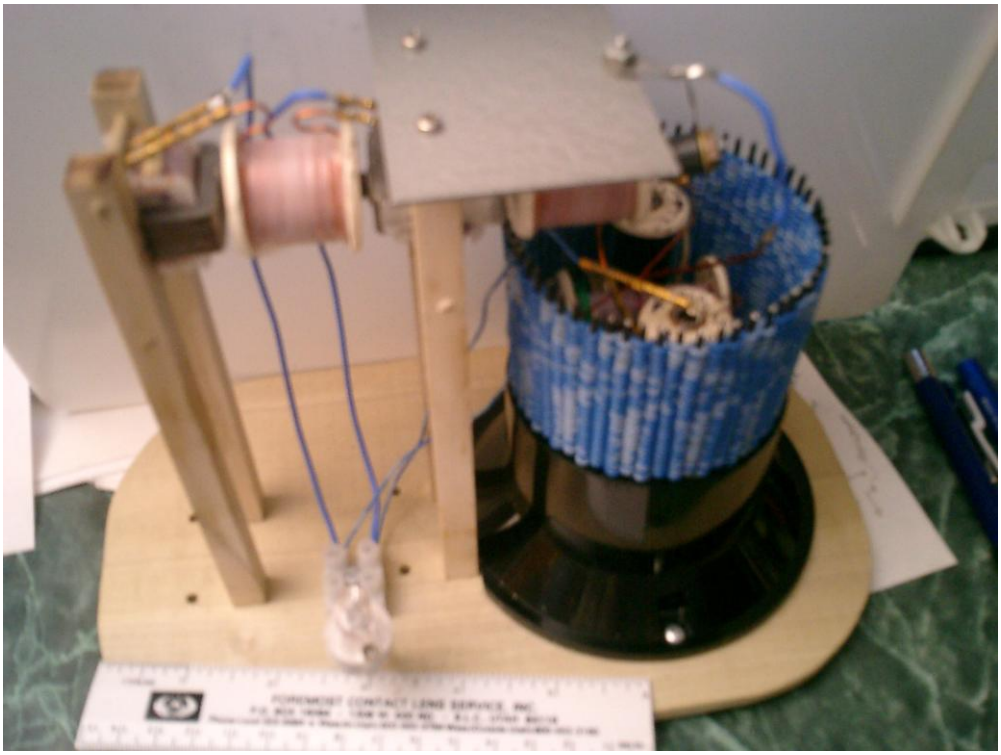
Core #015 and Core #016 are made out of a combo of soft iron and ferrite. The outside is a ring of soft iron. The next layer is the ferrite core that has a center hole. This center hole is then filled with soft iron. The soft iron is Lincoln welding wire Super Arc L-56 at 0.025” dia. This material is well suited for coil cores, magnetic but will not retain magnetic properties, better than other soft iron.

Winding for Coil #013: Form size: ID 0.315” X length 1.165”. Direction is CW. Wire size is AWG #28. Approx. number of turns is 400. 5 layers of wire wound on the form.

Winding for Coil #014: Form size: ID 0.315” X Length 1.165”. Direction is CCW. Wire size is AWG #28. Approx. number of turns is 400. 5 layers of wire wound on the form.
Winding for Coil #019: Form size: Square width 0.387 X height 0.500 X length 0.608 Direction is CW. Wire size is AWG #28. Approx. number of turns is 440. 11 layers of wire wound on the form.

Winding for Coil #025: Form size: Square width 0.387 X height 0.500 X length 0.608 Direction is CW. Wire size is AWG #28. Approx. number of turns is 440. 11 layers of wire wound on the form.





There was no working expectation when this project was finished. This is just the first attempt as to size and shape. There is no test data and nothing happen when aligning to the earth's magnetic poles. Due to research on this and other subjects I have not finished this document and/or each individual component testing.

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