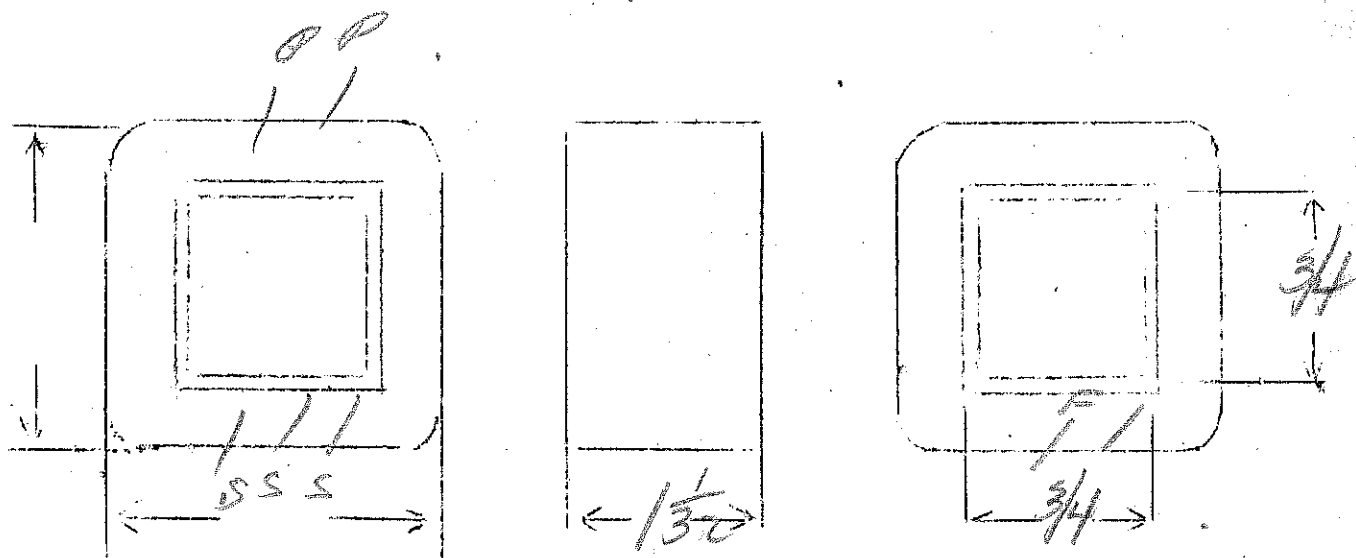
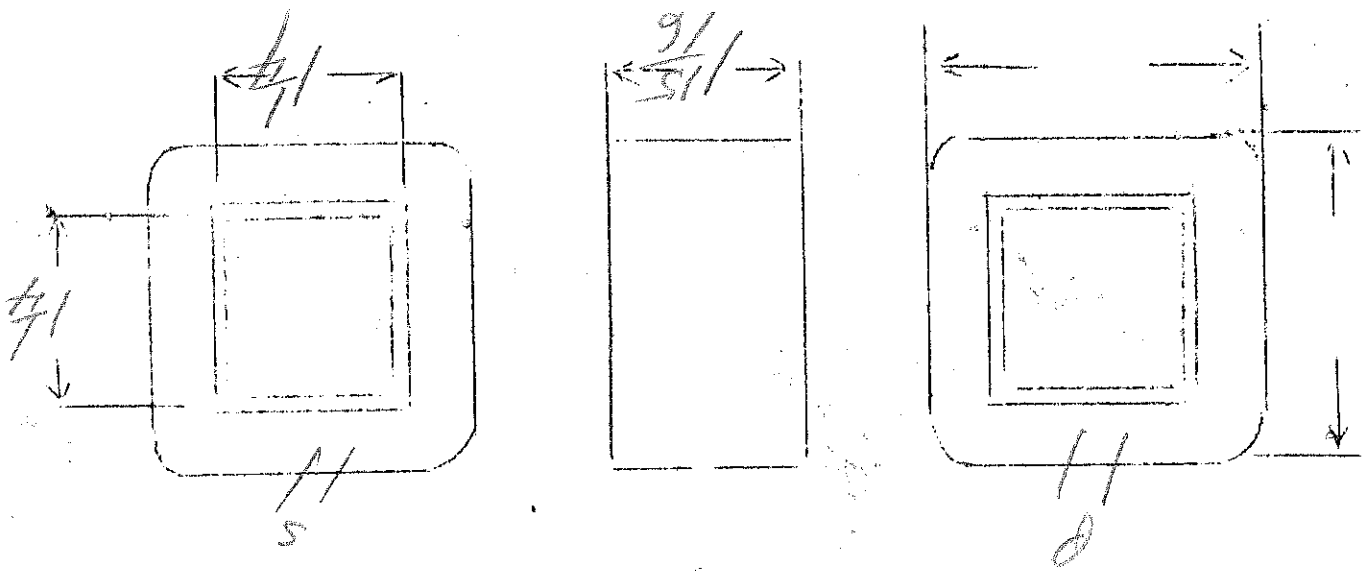


$E_p - 110V$   
 $E_s - 140VCT - 30mA$   
 $E_f = 3.25VCT - \frac{1}{2}amp$

SPEC. NO. 1446

Winding	PRI	SEC	F				
Turns	1100	1550	36				
Taps	—	775	18				
Wind. Lgth.	$\frac{27}{32}$	$\frac{27}{32}$					
Wire Size	#34	#36	26				
T.P.L.	112-10	130-12	14				
Kind Term.	silbr	silbr	W.O.				
Term. Lgth.	3	3	3				
Layer Insul.	20#	20#					
Wrapper	1L007VC	2L005GA	2L0056A				
TUBE	4L007	IMPREGNATION		VARNISH			
CURE	3/4 x 3/4	2x2	21G				





Winding	Turns	Taps	Wind. Lgth.	Wire Size	T.P.L.	Kind Term.	Term. Lgth.	Layer Insul.	Wrapper	TUBE	CURE
PRI SEC	434 27	—	175	#12	55-8	WIRE ONLY	3"	50#	ALUMINA	7L-007	1/4 x 1/4
										IMPREGNATION	
										VARNISH	

1447

SPEC. NO.

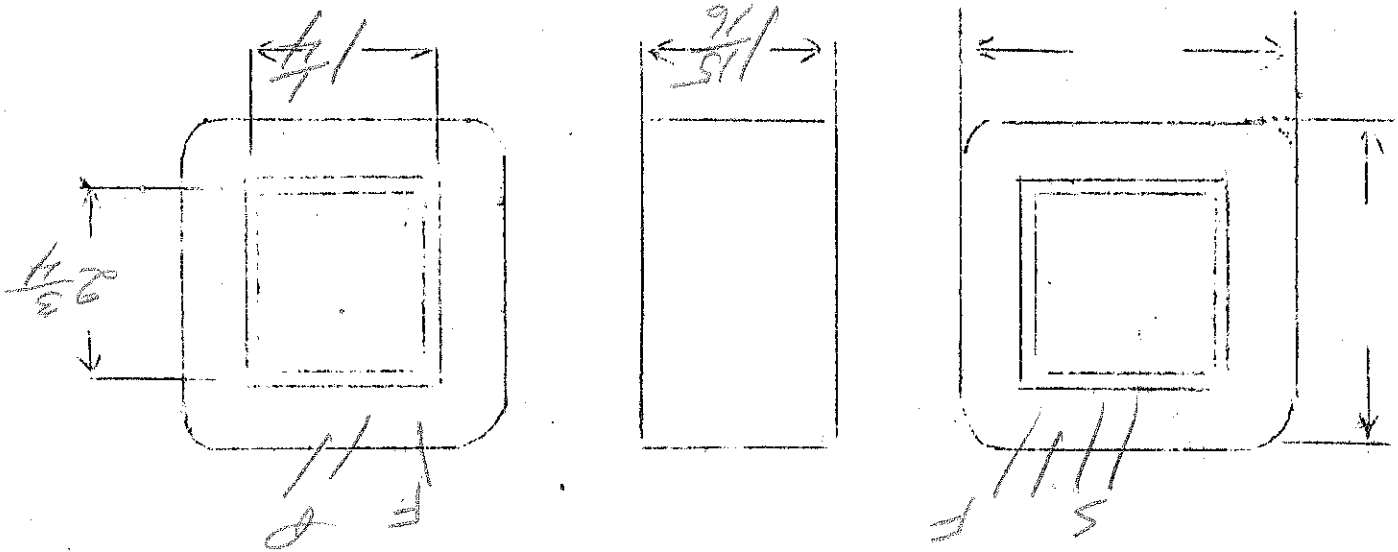
$$\frac{E}{N} = 3.75$$

$$VA = 130 \text{ watts}$$

$$EP = 6.5V - 20 \text{ amp}$$

$$EP - 115V$$

cmg



Winding	Turns	Taps	Wind. Lgth.	Wire Size	T.P.L.	Kind Term.	Term. Lgth.	Layer Insul.	Wrapper	TUBE	CURE
SEC	1450	725	175	#26	91-16	#20 0.082	9"	50#	210072C	720774 4/2 W. W. W.	1 1/2 x 3 1/4
SHIELD	91	—	175	#26	91	0.082	3"	—	110072C		
PR1	193	—	175	#19	44-4	#20 0.082	9"	Kraft	210072A		
F	9	—	—	#20	—	W.O.	9"	—	210072A	IMPRREGNATION	VARNISH

SPEC. NO. 1448

Ep - 115V  
 Es - 800V.C.T. - 400MA.  
 Ef - 5V - 3 amp  
 $\frac{E}{N} = 167$

mm

Ep - 110V

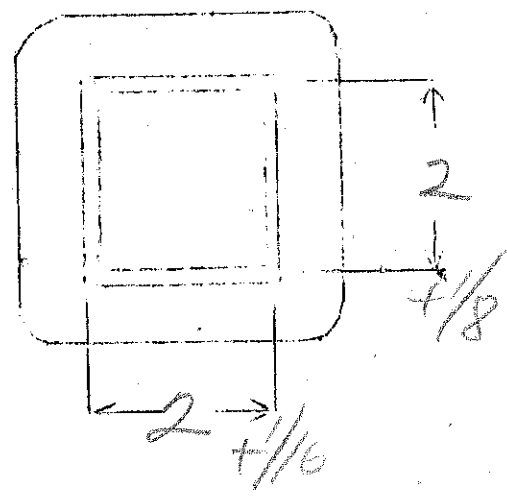
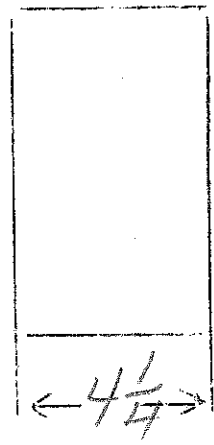
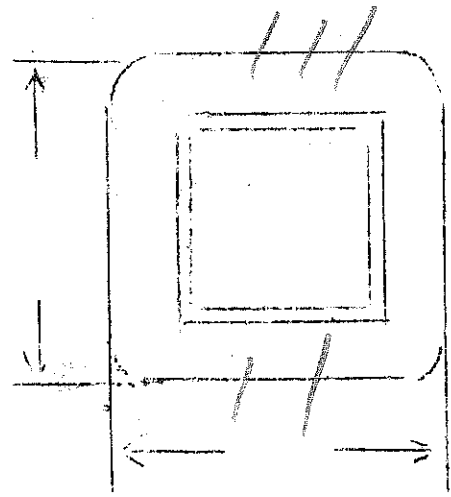
Es - 1500V ea. side. CT - 500MA

- 750 watts

$\frac{N}{F} = 155$

SPEC. NO. 1449

Winding	SEC	PRI				
Turns	5100	172				
Taps	2550	—				
Wind. Lgth.	3 <sup>3</sup> / <sub>7</sub>					
Wire Size	#25	double #15				
T.P.L.	185-28	6L				
Kind term.	WIPE ONLY					
Term. Lgth.	6"	6"				
Layer Insul.	60 #					
Wrapper	21007VC 210050A	210050A				
TUBE	9L007 + 21007VC		IMPREGNATION	VARNISH		
CURE	2 X 2					



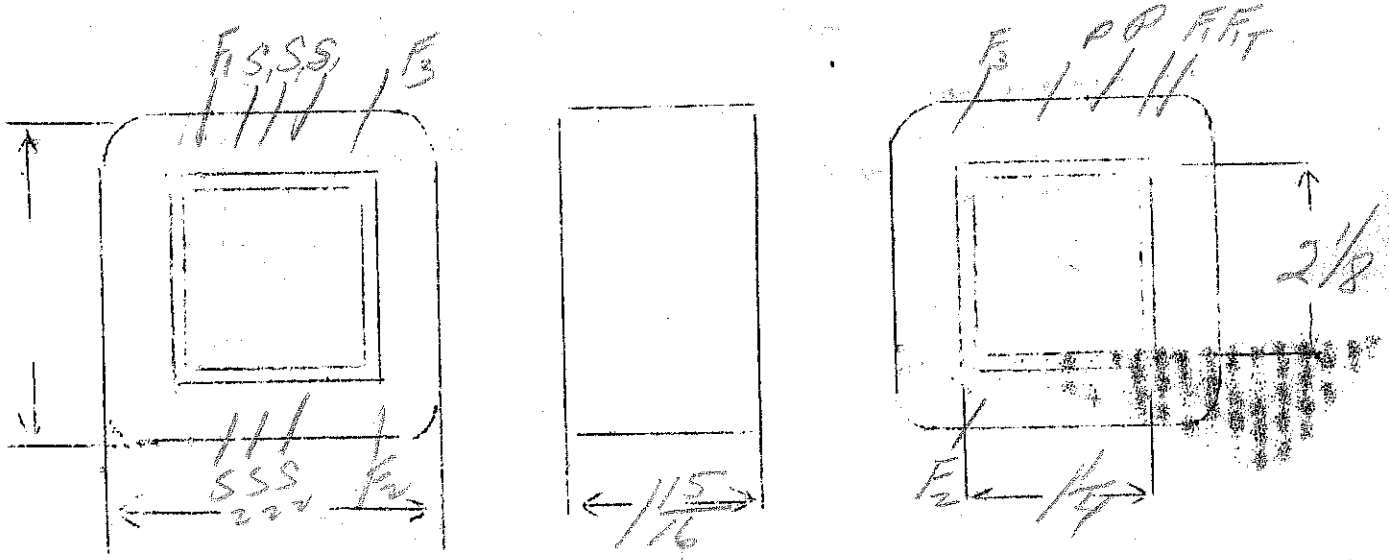
1520

$E_b - 415V$   
 $E_{s1} - 750VCT - 125mA$   
 $E_{s2} - 650VCT - 120mA$   
 $EF_1 - 6.3V - 5A$   
 $EF_2 - 5V, 2amp$   
 $EF_3 - 5V - 3 Amp$

$$\frac{N}{I} = 222$$

SPEC. NO. 1450

Winding	SEC <sub>1</sub>	SEC <sub>2</sub>	SHIELD	PRI	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>
Turns	1800	1570	158	256	15	12	12
Taps	900	985			7		
Wind. Lgth.	1.75	1.75	1.75	1.75			
Wire Size	#31	#31	#31	#20	#18	#20	#18
T.P.L.	153-12	158-10		45-6			
Kind Term.	#20 per lead		SPB	#20 per	WIPE ONLY		
Term. Lgth.	9"	9"	3"	9"	9"	9"	9"
Layer Insul.	30#	30#	30	50#			
Wrapper	12007VC 3/4" x 1/8"	12007VC	12007VC	240076A	240076A		240076A
TUBE	7607	IMPREGNATION			VARNISH		
CURE	1 1/4 x 2 1/8						



$E_p = 115V$

$\frac{N}{E} = 1.95$

Mission Bell

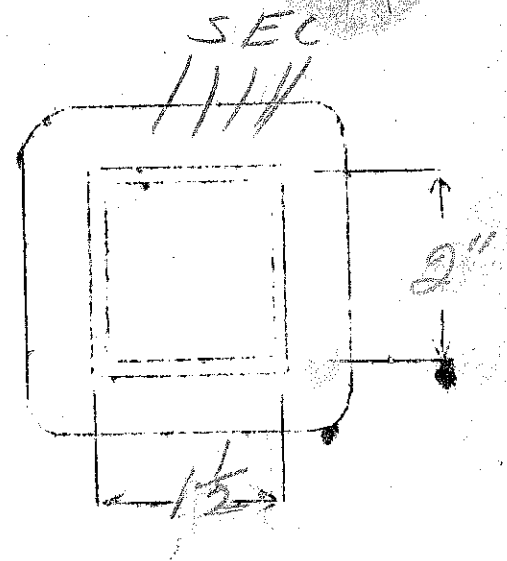
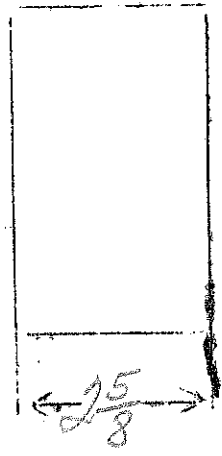
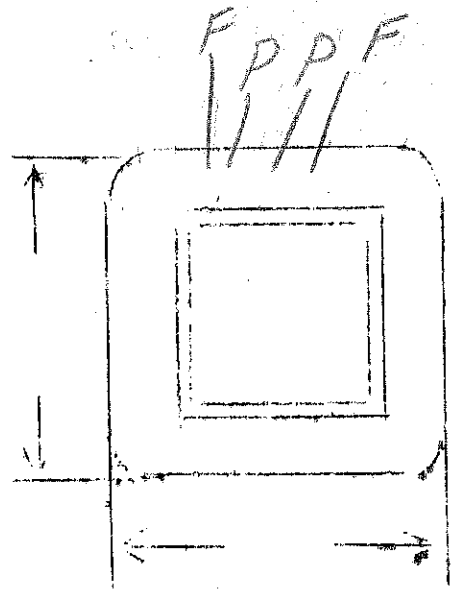
$E_f = 2.5V - 16amps$

$E_s = 20, 25, 30, 35 - 10amps$

SPEC. NO.

1451

Winding	PRI	SEC		FIL			
Turns	225	75		5			
Taps	—	64 54-43"					
Wind. Lgth.	23/8						
Wire Size	#16	#13		double #13			
T.P.L.	40-6	26-3		FIL ON LAST PRI. LAYER			
Kind Term.	WIRE ONLY						
Term. Lgth.	6"						
Layer Insul.	.005	KRAFT					
Wrapper	20056A		20056A	20056A			
TUBE	9L007			IMPREGNATION		VARNISH	
CURE	1/2 x 2"						



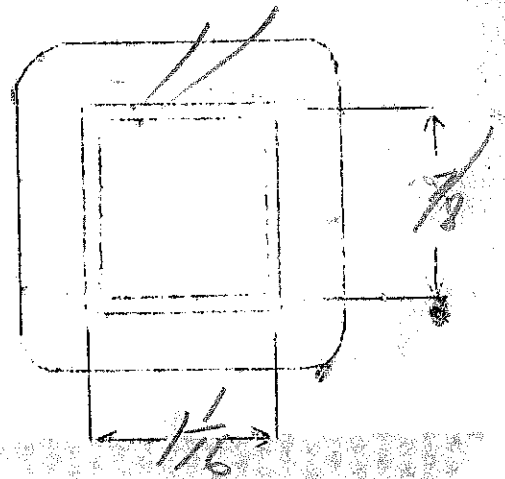
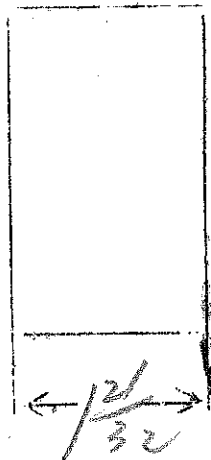
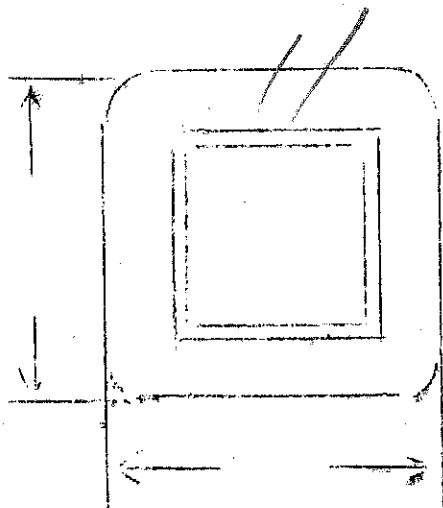
Ep-115  
 Ep - 6.3V - 6 amp

VA = 40

$\frac{N}{I} = 5.75$

SPEC. NO. 1452

Winding	(275) PRI	SEC				
Turns	660	40				
Taps	—	—				
Wind. Lgth.	1 <sup>15</sup> / <sub>32</sub>					
Wire Size	#25	#15				
T.P.L.	67-10					
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	30 #					
Wrapper	2W056A	2W056A				
TUBE	4007		IMPREGNATION		Varnish	
CURE	1 <sup>15</sup> / <sub>32</sub> x <sup>3</sup> / <sub>16</sub>					



$E_p = 100 - 110V$

$VA = 130$

$\frac{N}{E} = 3.5$

$E_{F1} = 7.5V - 3amp$

$E_{F2} = 6.3V - 3amp$

$E_{F7} = 5V - 6amps$

$E_{F3} = E_{F4} = 2.5V - 5amp$

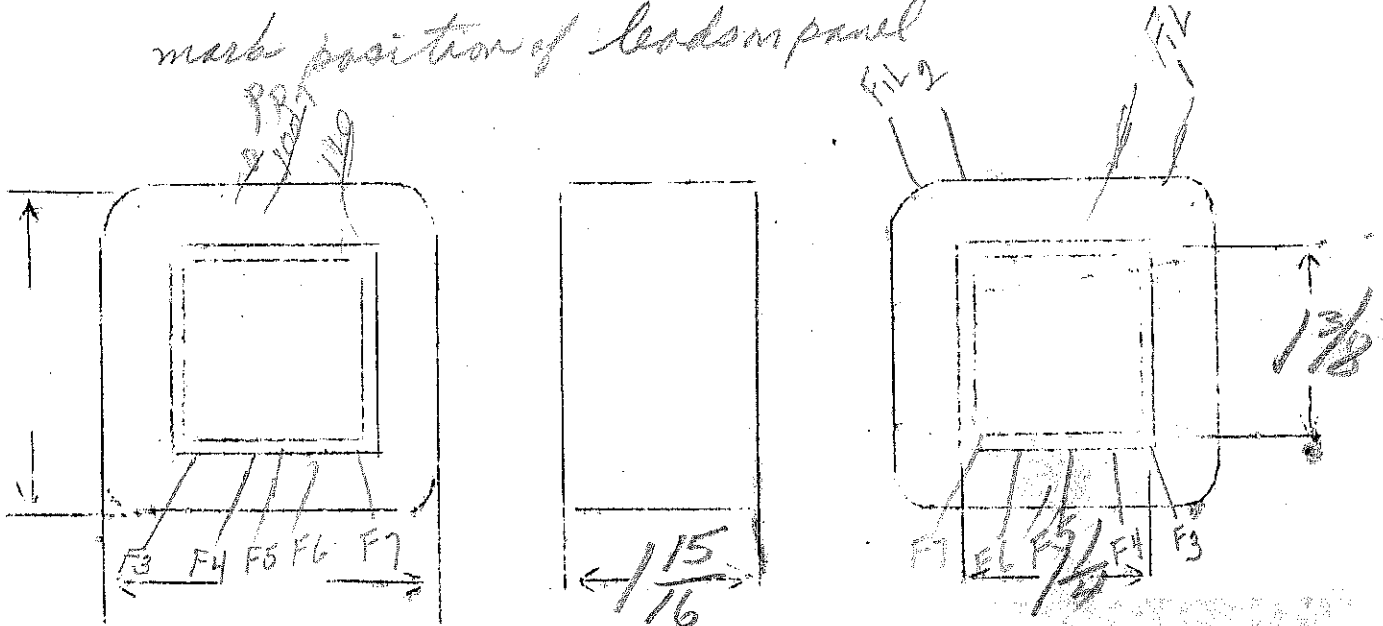
$E_{F9} = E_{F6} = 5V - 3amp$

SPEC. NO.

1453

Winding	PR1	F1	F2	F3 & F4	F5 & F6	F7		
Turns	365	27	23	9	18	18		
Taps	330	—	—	—	—	—		
Wind. Lgth.	1.75							
Wire Size	#21	#18	#18	#16	#18	#15		
T.P.L.								
Kind Term.	WIRE ONLY							
Term. Lgth.	3"							
Layer Insul.	50#							
Wrapper	210076A	between all elements 210076A						
TUBE	72007	IMPREGNATION			VARNISH			
CURE	1 1/4 x 1 3/8							

mark position of leads on panel





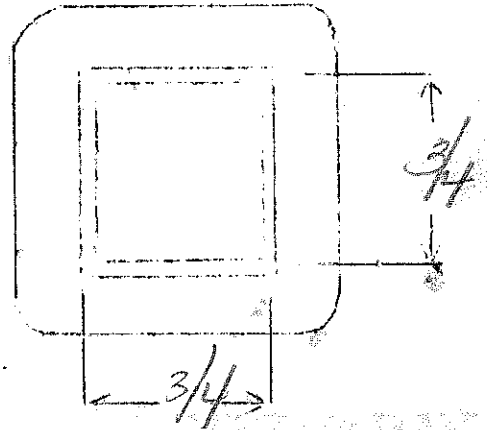
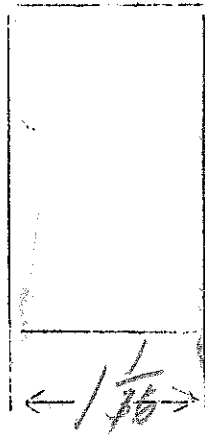
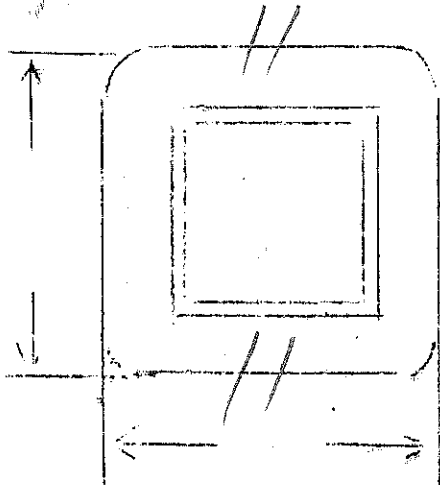
Ep-110V

$E_s = 7V-10mp$

SPEC. NO.

1454

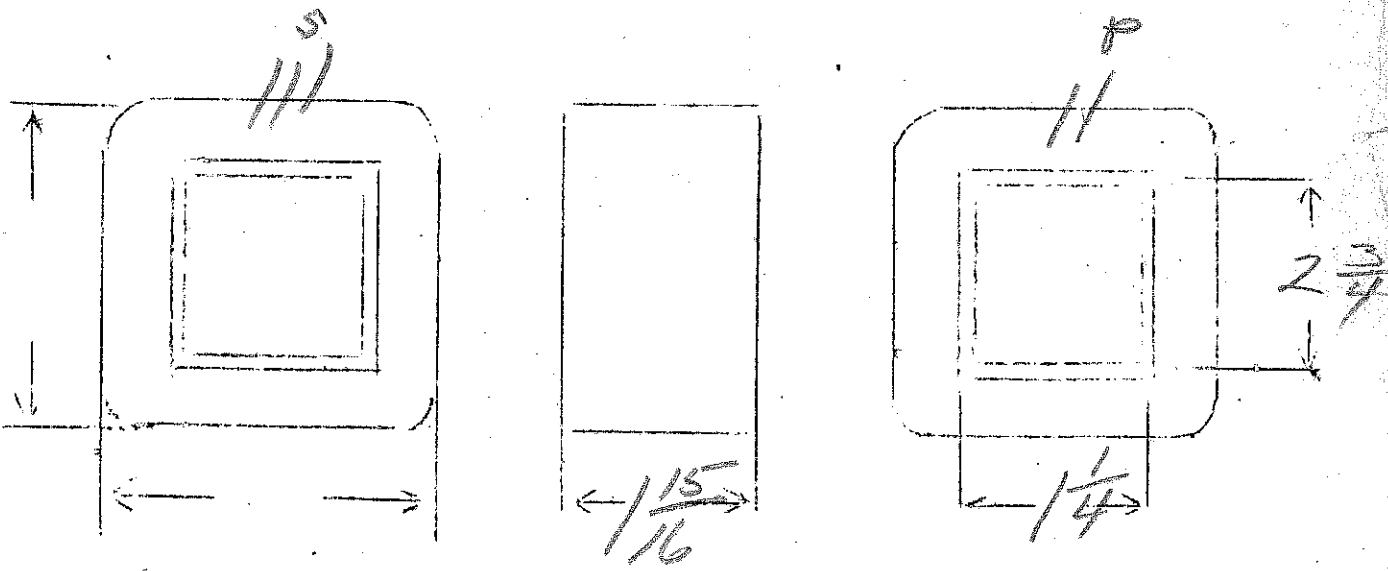
Winding	P	F					
Turns	1100	77					
Taps	-						
Wind. Lgth.	$\frac{7}{8}$	$\frac{7}{8}$					
Wire Size	#33	#21					
T.P.L.	104-11						
Kind Term.	Sil Br	W.ONLY					
Term. Lgth.	3	3"					
Layer Insul.	20#						
Wrapper	2L0056A	2L0056A					
TUBE	42007		IMPREGNATION		Varnish		
CURE	$\frac{3}{4} \times \frac{3}{4}$	2x2					



Ep - 115V - 25N  
 Es - 750V CT - 125MA  
 Ef1 - 5V - 2amps  
 Ef2 - 6.3V - 2.5amps  
 Ef3 - 2.5V - 3.5amps

SPEC. NO. 1455

Winding	SEC	SHIELD	PRI	F1	F2	F3	
Turns	2350	148	340	16	20	8	
Taps	11.75	-	-	-	-	4	
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#31	31	#22	#18	#19	#17	
T.P.L.	148-16		60-6				
Kind Term.	#20 PBR	SIL BR	#20 PBR	WIRE ONLY			
Term. Lgth.	9"	3"	9"				
Layer Insul.	30#		50#				
Wrapper	1L007VC	1L007VC	2L0076A	2L0076A	2L0076A	2L0076A	
TUBE	7L007			IMPREGNATION		YARNISH	
CURE	1/4 x 2 3/4						

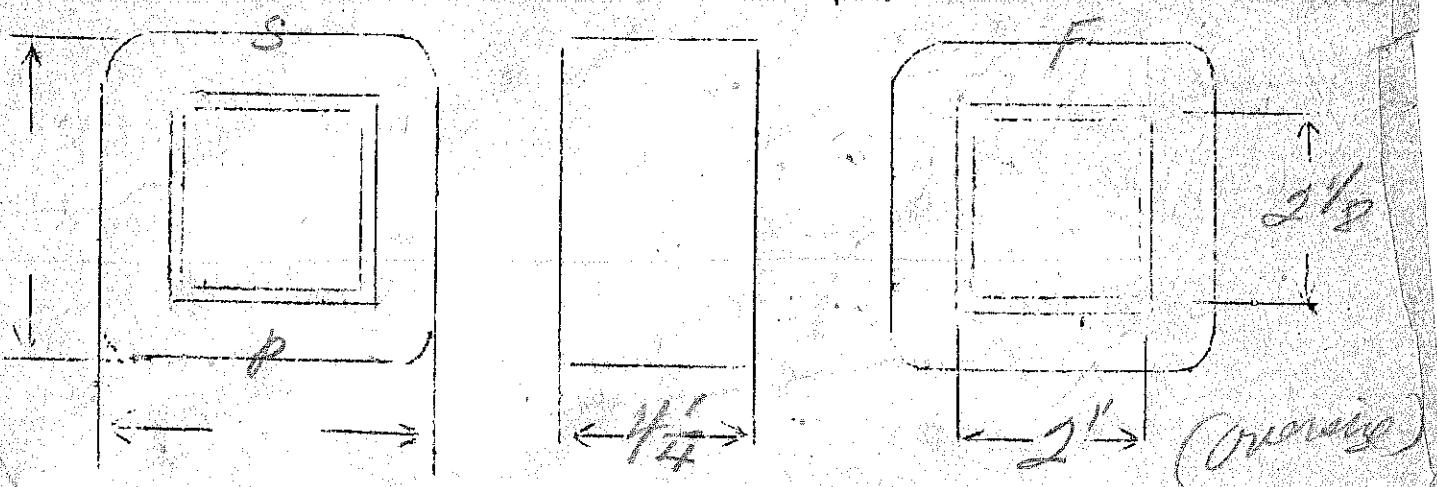


Ep - 110-115-125  
 Es - 2500V tap at 750-1250-3000V  
 Ef1 = 11VCT - 8amps

SPEC. NO. 1456 456

Winding	SEC	PRI	FIL			
Turns	4050	183 170 162	18			
Taps	1220-2040		9			
Wind. Lgth.	3 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>				
Wire Size	#26	#11	#12	cotton covered		
T.P.L.	204-20	33-6		rubber	Copper	
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	4"	4"			
Layer Insul.	double 40	Kraft				
Wrapper	3L007VC 3L005GA	3L005GA	2L0050A 7L010FK			
TUBE	10L007 + 2L007VC		IMPREGNATION	VARNISH.		
CURE	2 x 2 1/8					

mark voltage on panel - stud bolts



M P E  
 0 110  
 0 0  
 125 11  
 0 0

F O T  
 O 2 1  
 CT 0 0  
 O 3 0  
 F 0 0  
 O 0 0

Ep - 110 - 120 - 130 - 140V - 48N

Es - 10V - 15 amper

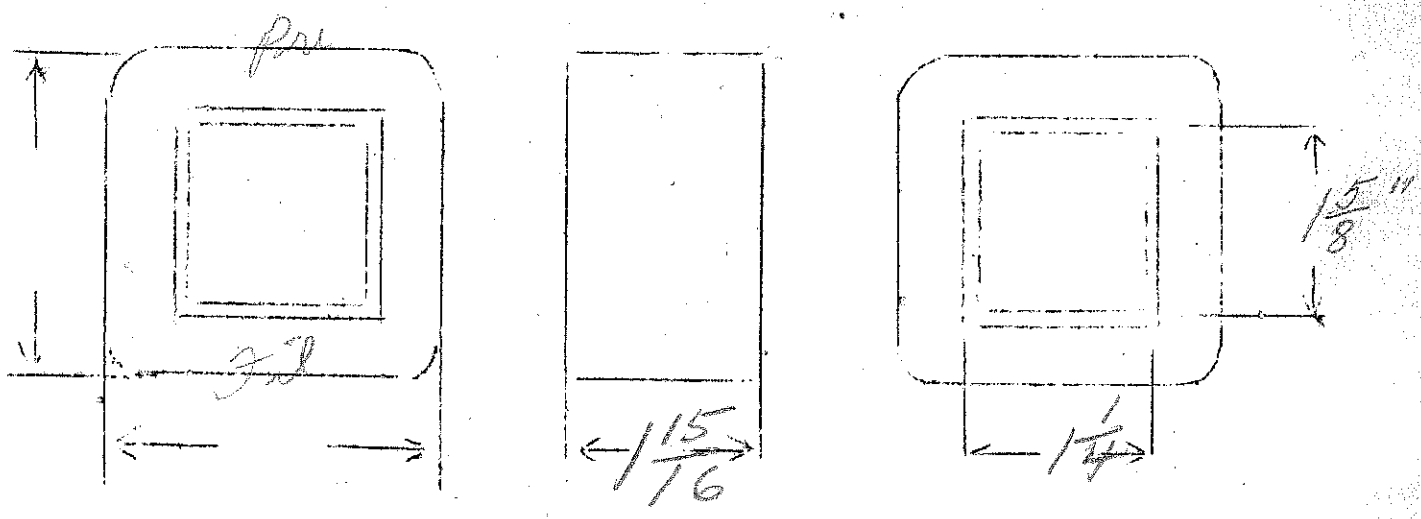
VA = 150  $\frac{N}{E} 31$

Electrostatic Shield

SPEC. NO. 1458

Winding	PRI	SHIELD	FIL			
Turns	485 403		34			
Taps	370 342					
Wind. Lgth.	1.75	1.75				
Wire Size	#21	BRMS	double #14			
T.P.L.	9L		3L			
Kind Term.	wire only -					
Term. Lgth.	3"		3"			
Layer Insul.	50#					
Wrapper	210076A	210076A	210076A			
TUBE	71007	IMPREGNATION		VARNISH		
CURE	1 1/4 x 1 5/8					

B. 299



Ep - 110 - 120 - 130 - 140 - 48N

$\frac{N}{F} - 195$

EF<sub>1</sub> - 11V tap 10V, 9V -  $\delta = 10$  amp

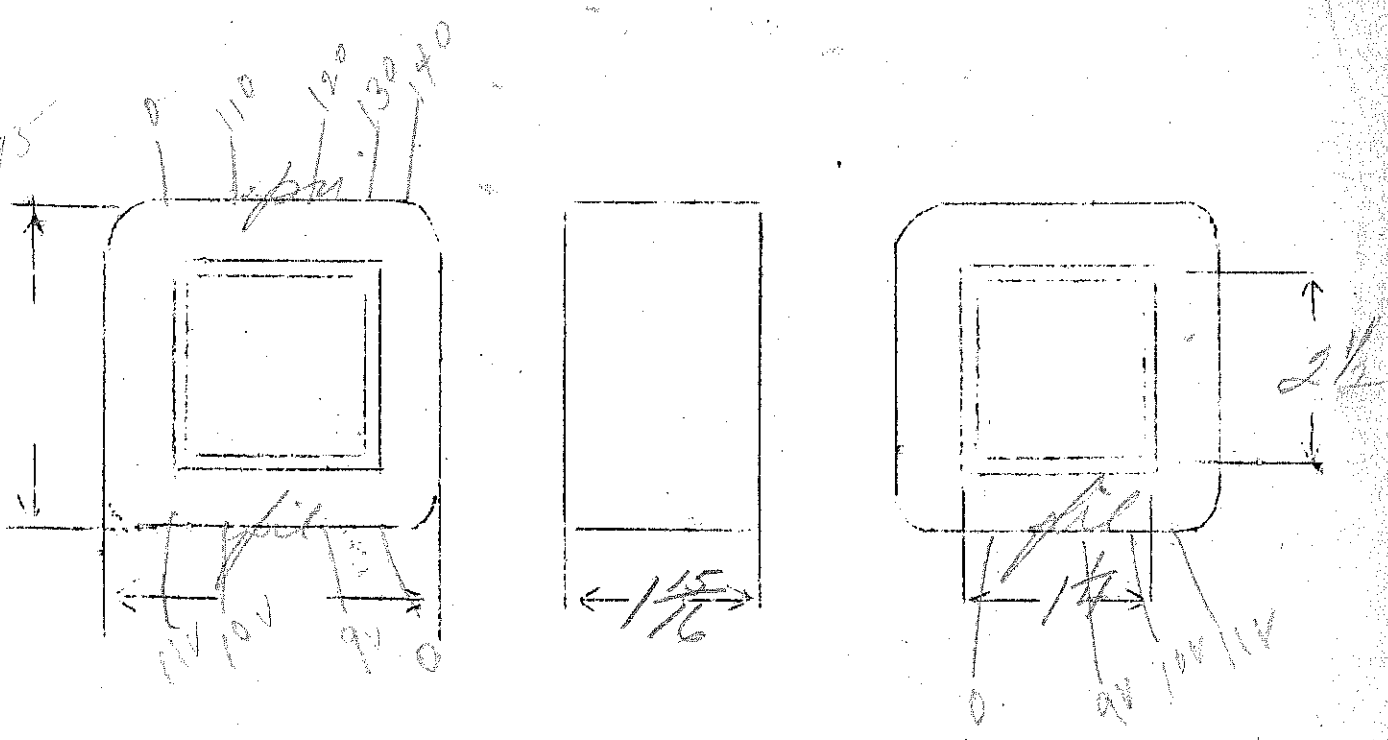
VA = 200

EF<sub>2</sub> - 11V tap 10V, 9V -  $\delta = 10$  amp

SPEC. NO.

1459

Winding	PRI		FIL <sub>1</sub>	FIL <sub>2</sub>			
Turns	272		23	23			
	252		21	21			
Taps	233 - 215		19	19			
Wind. Lgth.	1.75		1.75	1.75			
Wire Size	#19		#13	#13			
T.P.L.	8 layers						
Kind Term.		"WIRE ONLY"					
Term. Lgth.	3"		3"	3"			
Layer Insul.	0056A						
Wrapper	20076A		20076A	20076A			
TUBE	2007		IMPREGNATION		VARNISH		
CURE	1/4 x 2 1/2						



9.96

two pri windings - 120V tapped at 110V

Sec - 110 - 105 - 102.5 - 100 - 97.5 - 95 - 92.5 - 90 - 85 - 80  
 75 - 70 - 60 - 50

$$\frac{N}{E} = 5.25$$

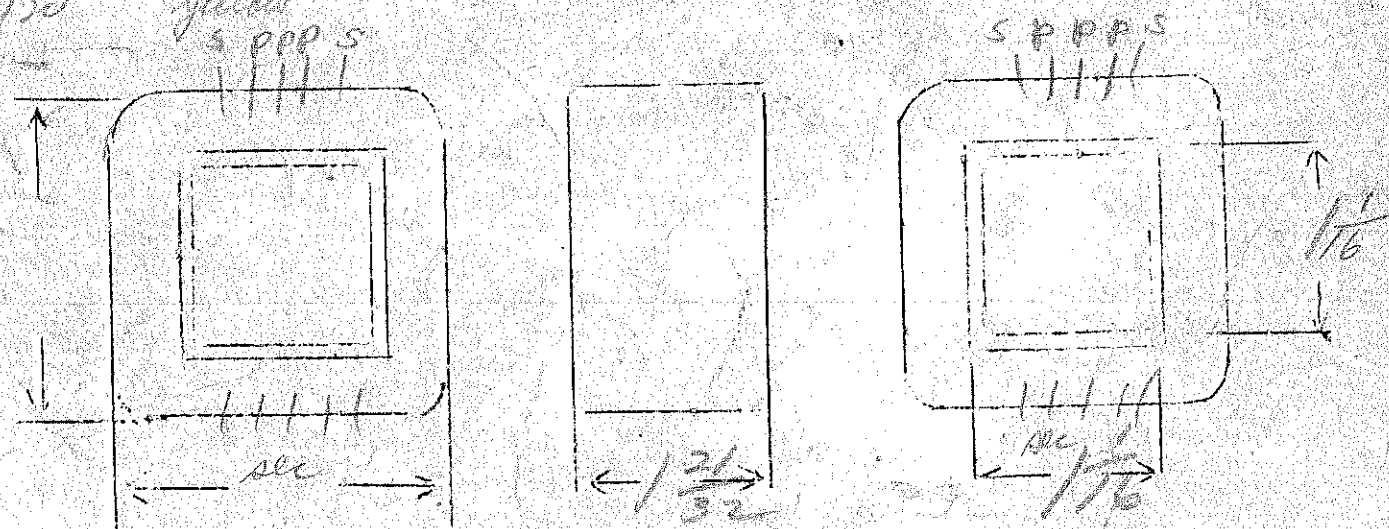
Sec current 1/2 amp

SPEC. NO. 1460

Winding	P <sub>1</sub>	P <sub>2</sub>	S <sub>1</sub>				
Turns	632	632	635	1025	1000	475	45
Taps	580	580	606	591	577	563	548
Wind. Lgth.	1.43	1.43		490	462	433	404
Wire Size	#28	#28	#24				
T.P.L.	98-7	98-7	61	multiple wind up -			
Kind Term.	30#	30#	30#	to 430, single wind to end			
Term. Lgth.	9"	9"	9"				
Layer Insul.	30#	30#					
Wrapper	12007VC	12007VC					
TUBE	12007			IMPREGNATION		VARNISH	
CURE	1 1/16 x 1 1/16						

Pri start - black  
 110 - white  
 120 - yellow  
 5 ppp 5

sec start red  
 all taps blue - to be marked



Ep-110-115V

Double Electrostatic Shield

Es-600VCT-45ma

VA=60 watt

$\frac{N}{E} = 44$

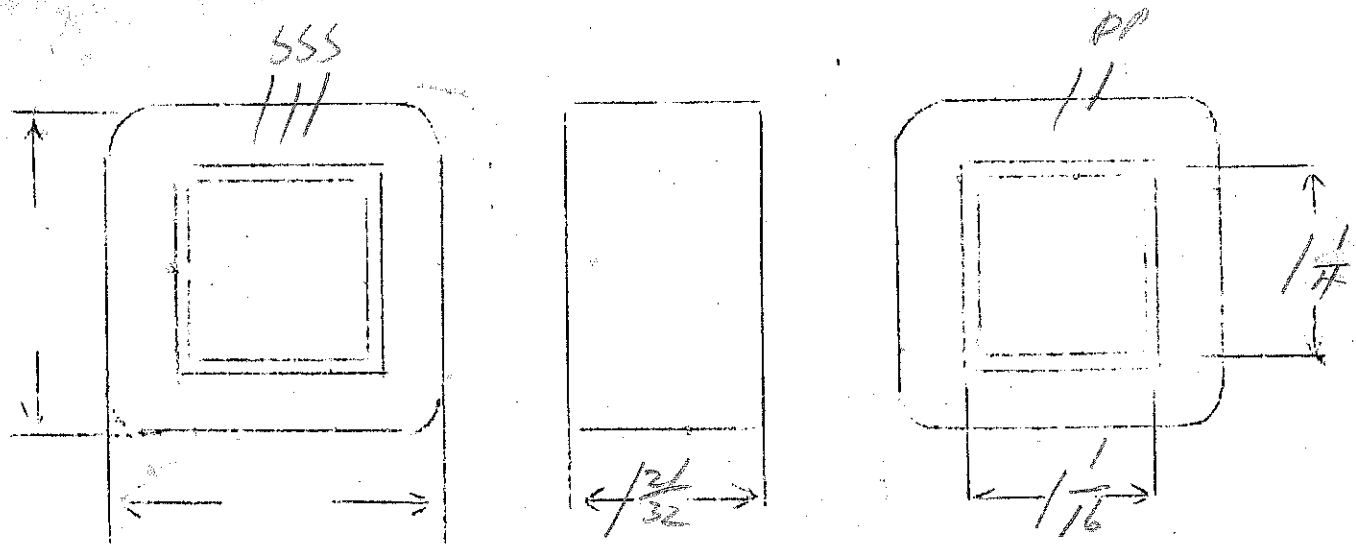
Ef1-5V-4amp

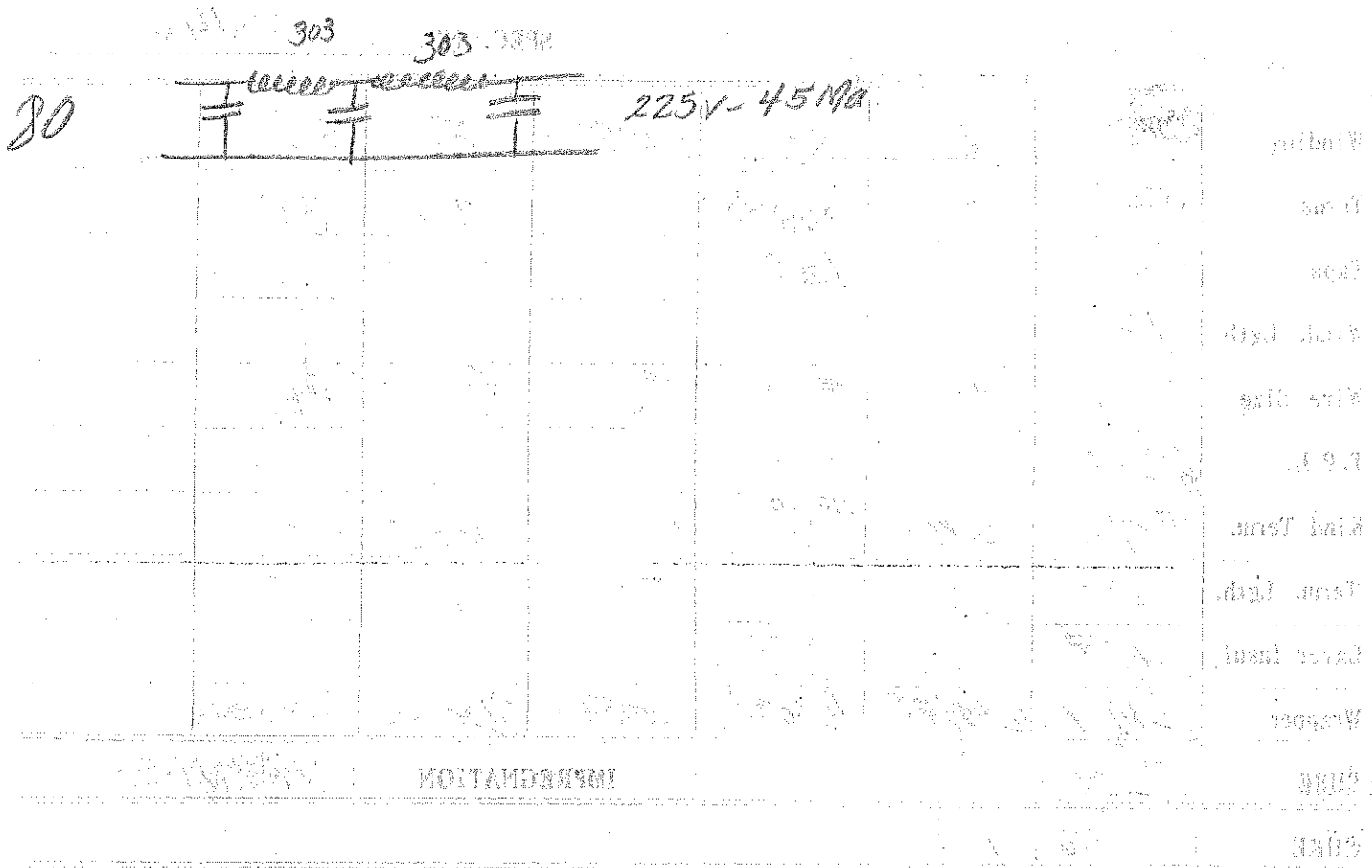
Ef2-6.3V-4amp

SPEC. NO.

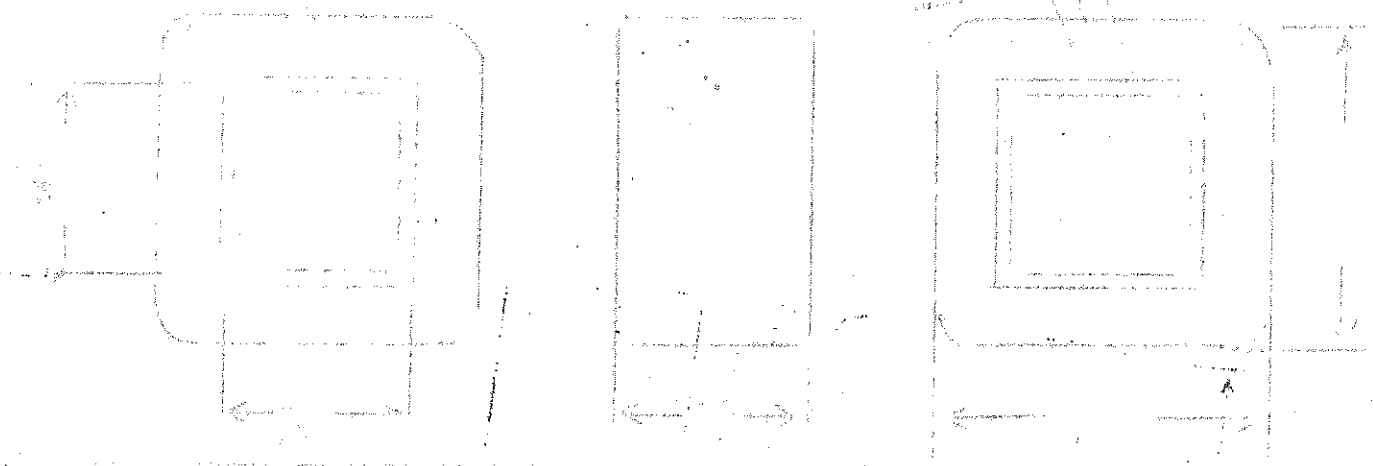
1461

Winding	PRI	SHIELD	SEC	SHIELD	F1	F2
Turns	528	220	3000	220	24	30
Taps	485		1500		-	15
Wind. Lgth.	1 1/32	-	-	-	-	-
Wire Size	#24	#35	#35	#35	#27	#17
T.P.L.	62-9		215-14			1 1/4 L
Kind Term.	#20 PBA	#18 PBA	#20 PBA	#18 PBA	NIBS ONLY	
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	40#	-	30#	-	-	-
Wrapper	1L007VC	1L007VC	1L007VC	2L0056A	2L0056A	2L0056A
TUBE	72007			IMPREGNATION		VARNISH
CURE	1 1/16 x 1 1/4					





WIRING





Ep - 110-115-120

3.6

Es - 24VCT - 50MVA

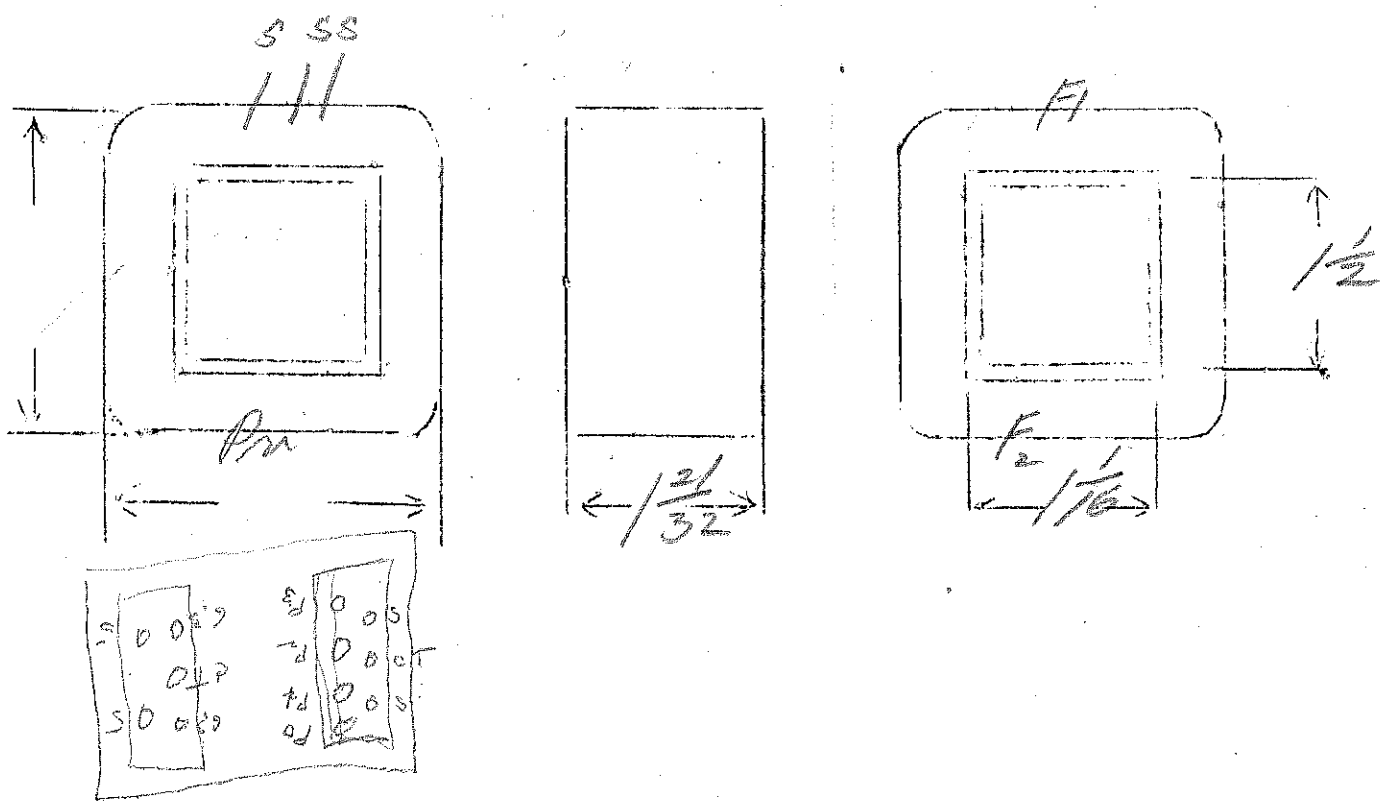
Ef1 - 5V 4amp

SPEC. NO. 1462

Ef2 - 6.3V 6amp

Winding	SEC	SHIELD	PRI	SHIELD	F1	F2
Turns	2850	185	433 414	1	25	20
Taps	14 25	-	400		12	
Wind. Lgth.	1 15/32	-	1 15/32	sheet upper		double
Wire Size	#34	#34	#23		15	#31
T.P.L.	185		57			
Kind Term.	#20 0.125	fil Br	#20 0.125	oil Br	WIRE ONLY	
Term. Lgth.	6"	3"	6"	3"	6'	6'
Layer Insul.	30 #		40 #			
Wrapper	11007VC	11007VC	11007VC	210056A	210056A	210056A
TUBE	76007			IMPREGNATION		VARNISH
CURE	1 1/16 x 1 1/2					

"A" mtg - special panel



Holstead - Short Wave Research

4100V.C.T. - 250 Ma

Ep - 115

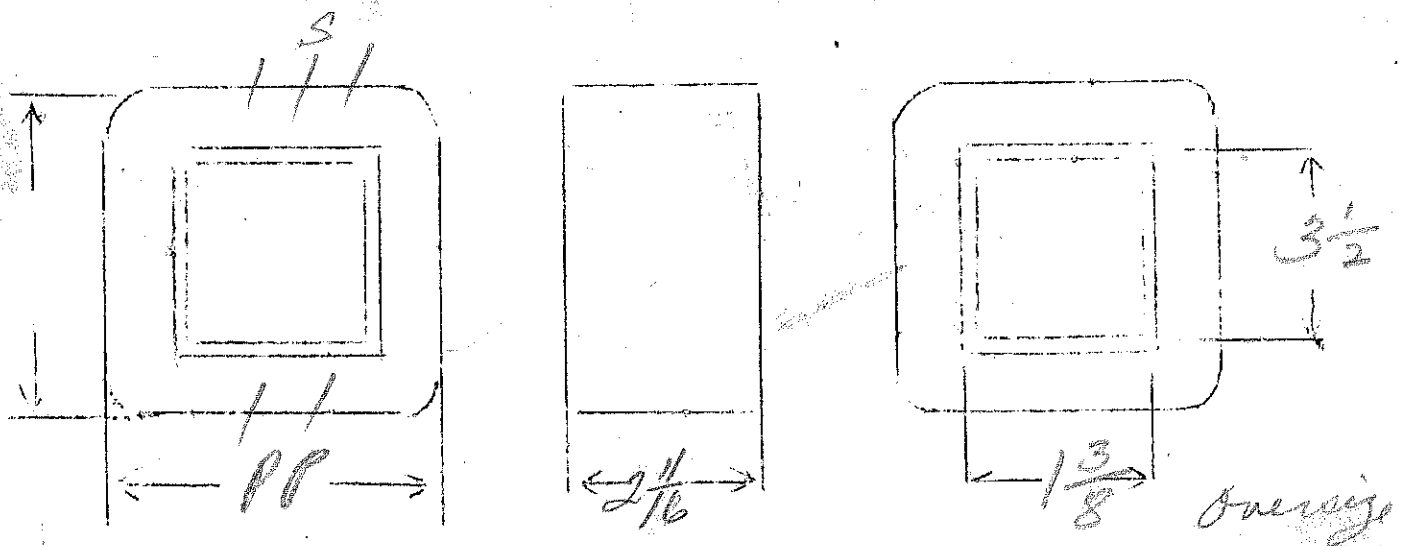
$$\frac{N}{E} = 1.3$$

Breakdown - 7500V.

SPEC. NO. 1463

Winding	SEC	PRI					
Turns	6000	150					
Taps	3000	—					
Wind. Lgth.	2 $\frac{5}{16}$	—					
Wire Size	#28	dupl. #18					
T.P.L.	153-40	6L					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	double 20#						
Wrapper	2L007VC 2L0056A	2L0056A 1L010RN					
TUBE	9L007+2L007VC		IMPREGNATION		VARNISH		
CURE	1 $\frac{3}{8}$ X 3 $\frac{1}{2}$						

paint on ends of coil



Ep-110-115V

EF1 = EF2 = 2.5V - 3amp

all 10,000V. insulation

EF3 - 2.5V - 3amp CT

$\frac{N_1}{N_2} = 5/1$

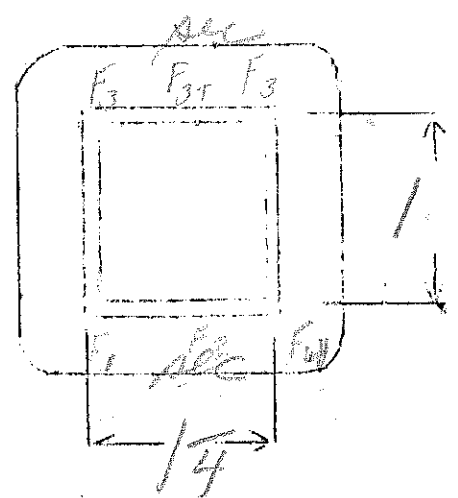
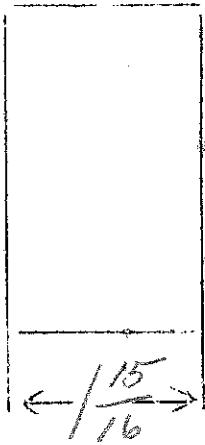
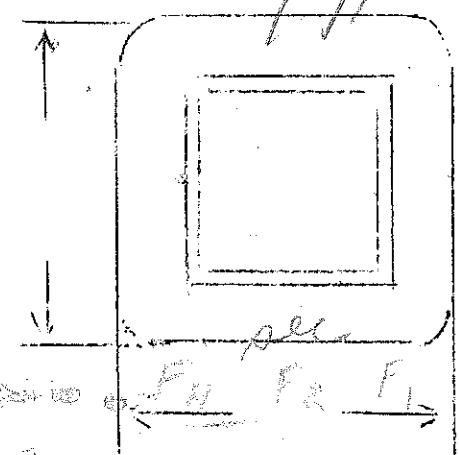
EF4 - 3V - 3amp

SPEC. NO. 1464

Winding	PRI	F1	F2	F3	F4		
Turns	587	14	14	14	17		
Taps	560	—	—	7	—		
Wind. Lgth.	1.75	—	—	—	—		
Wire Size	#26	#17	#17	#17	#17		
T.P.L.	94	—	—	—	—		
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	40#	—	—	—	—		
Wrapper	21007V6 310070A	21007V6 310070A	same above lead winding				
TUBE	72007	IMPREGNATION			VARNISH		
CURE	1 1/4 x 1						

all sec. leads must connect thru tubing

PPP  
1 1/2"



Ep - 110-115V

EF1 = EF2 = 2.5V - 3amp

all 10,000V. insulation

EF3 - 2.5V - 3amp ET

$\frac{N_2}{N_1} = 5.1$

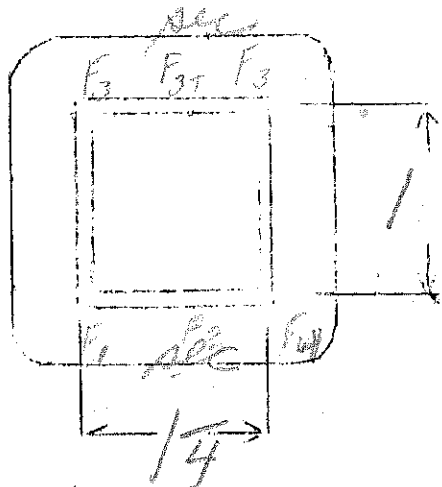
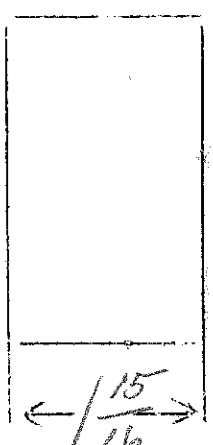
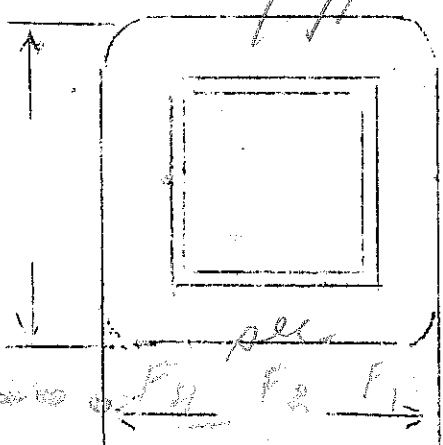
EF4 - 3V - 3amp

SPEC. NO. 1464

Winding	PRI	F1	F2	F3	F4		
Turns	587	14	14	14	17		
Taps	560	—	—	7	—		
Wind. Lgth.	1.75	—	—	—	—		
Wire Size	#26	#17	#17	#17	#17		
T.P.L.	94	—	—	—	—		
Kind Term.	WIRE OVER						
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	40#	—	—	—	—		
Wrapper	21007V6 31007GA	21007V6 31007GA	same above lead winding				
TUBE	71007	IMPREGNATION			VARNISH		
CURE	174X1						

all sec. leads must connect thru tubing

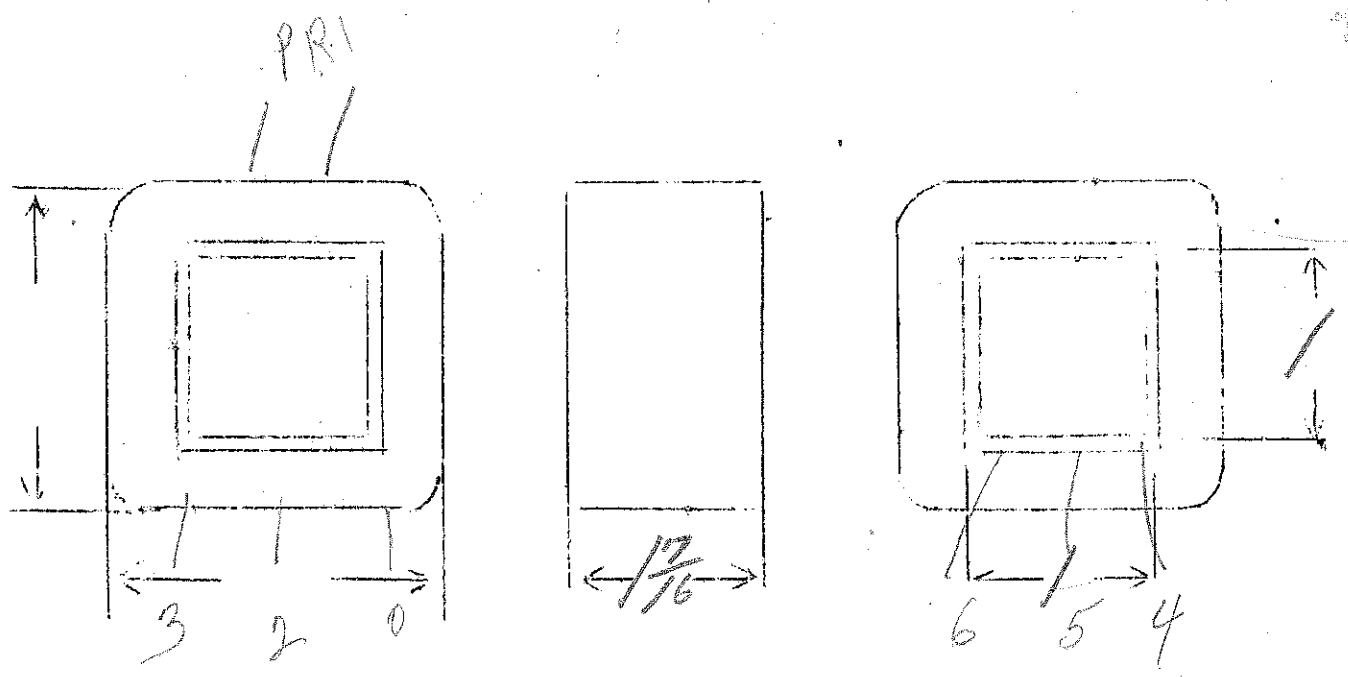
PPP  
1/11



$E_p = 115V$   
 $E_F = 24-22-19-8-6V$      $\delta = 2.5amps$   
 $\frac{N}{F} = 5.45$

SPEC. NO. 1465

Winding	PR1	SEC				
Turns	630	144				
Taps		132-114-98-36				
Wind. Lgth.	1.25					
Wire Size	#27	#19				
T.P.L.						
Kind Term.	Silv					
Term. Lgth.	3"					
Layer Insul.						
Wrapper	210056A	210056A				
TUBE	42007		IMPREGNATION		VARNISH	
CURE	1 x 1 NW					



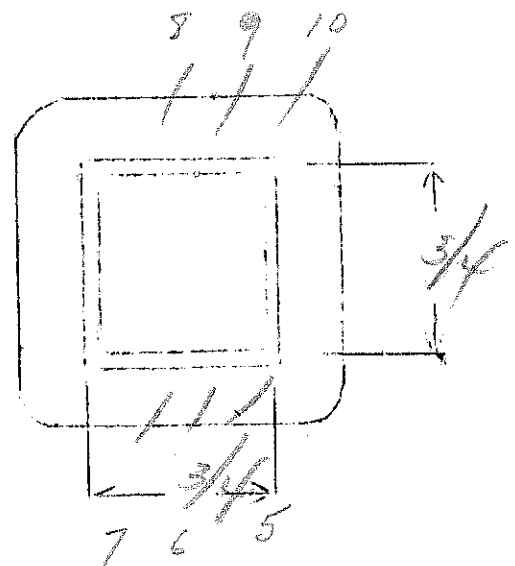
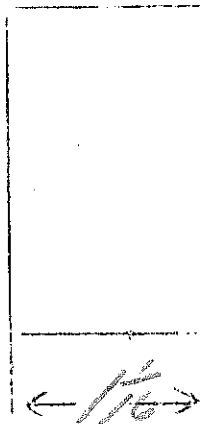
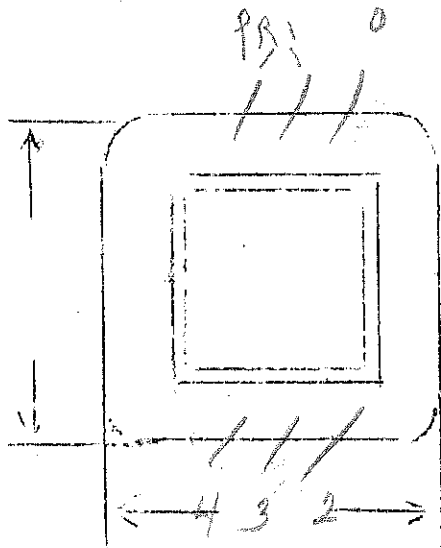
Ep-110

Ep - 6.5 - 5.5 - 4 - 3.5 - 2.5 - 2 - 1.75 - 1.5 - 1

$i = .5 \text{ amp}$

SPEC. NO. 1466

Winding	PRI	SEC					
Turns	1100	72					
Taps		60 - 44 - 38 - 28 - 22 - 18 - 16 - 11					
Wind. Lgth.	$\frac{7}{8}$	$\frac{7}{8}$					
Wire Size	#34	#23					
T.P.L.							
Kind Term.	sl br	wire only					
Term. Lgth.	3"						
Layer Insul.	30#						
Wrapper	2L0056A	2L0056A					
TUBE	4L007			IMPREGNATION		VARNISH	
CURE	3/4X	3/4	290B	2X2			



$E_p - 120V$  *character*

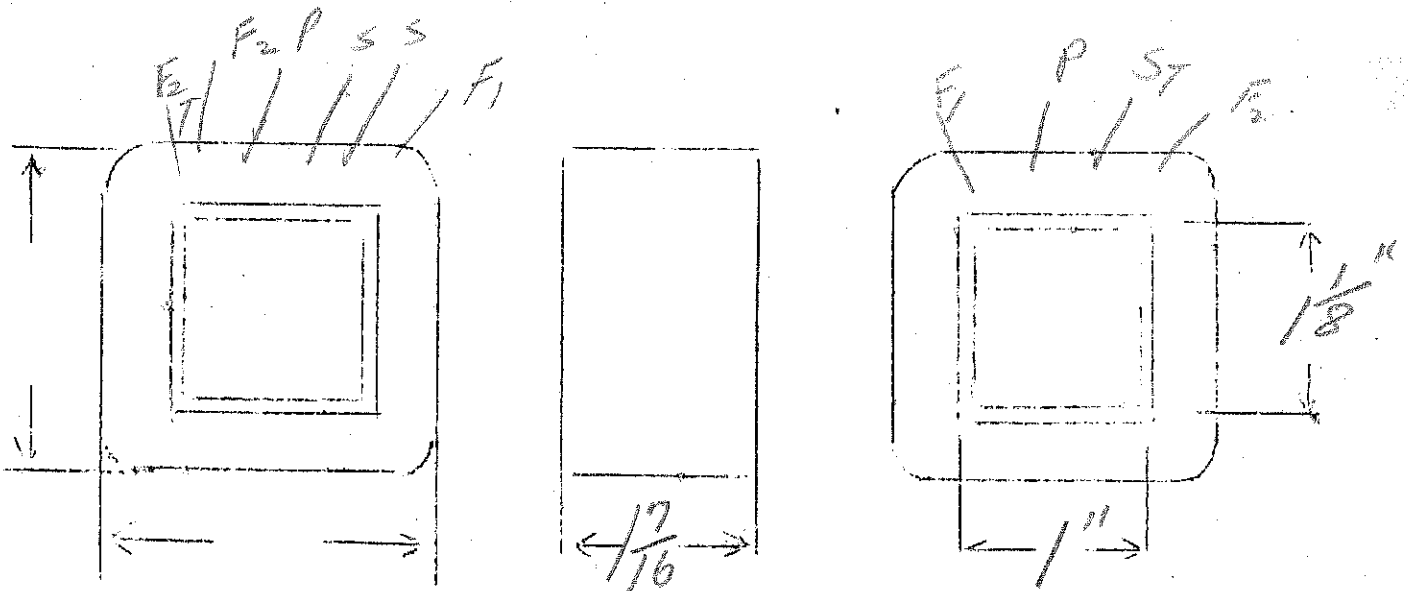
$E_s - 660 VCT - 45 Ma$

$E_{F1} = 5V - 2a$

$E_{F2} = 6.3V - 2a$

SPEC. NO. 1467

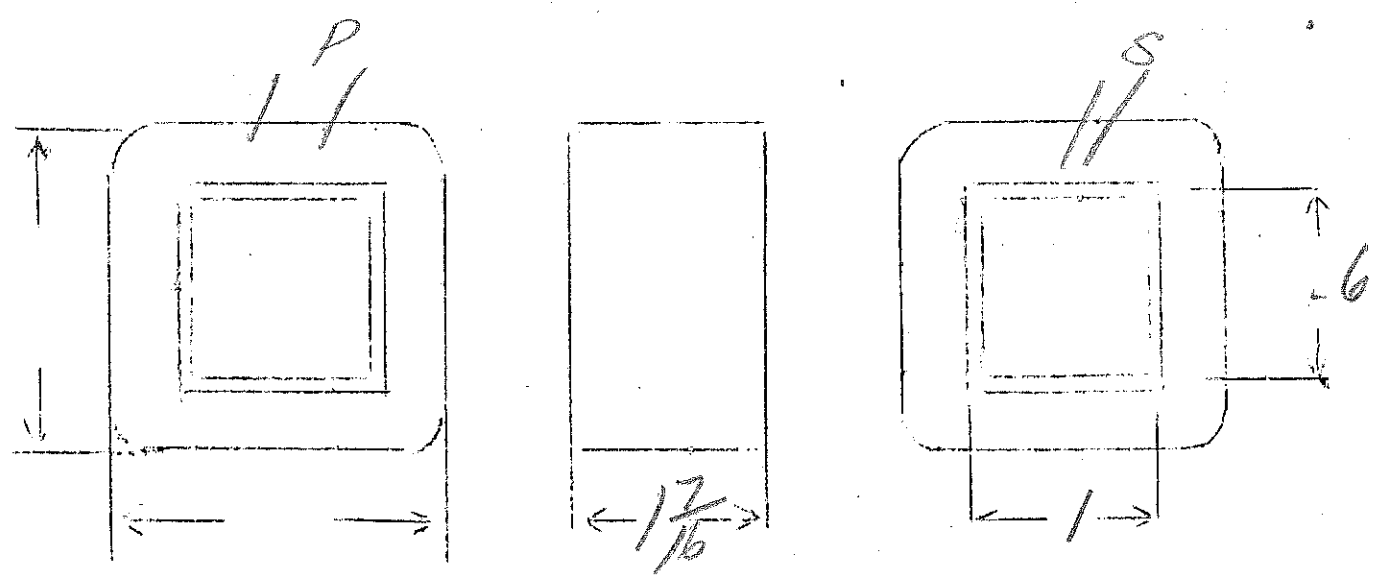
Winding	PRI	SHIELD	SEC	F <sub>2</sub>	F <sub>2</sub>		
Turns	655	74	3850	38	30		
Taps	—		1925	19	—		
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#27	#27	#36	#20	#21		
T.P.L.	74-9	74	210-18	let last few turns F <sub>2</sub> go on second layer			
Kind Term.	#20 PBR	N.O.	#20 PBR	WIRE ONLY			
Term. Lgth.	9"	3"	9"				
Layer Insul.	30#		20#				
Wrapper	1L007VC	1L007VC	2L0056A	2L0056A	2L0056A		
TUBE	4L007			IMPREGNATION		VARNISH	
CURE	1X1NW						



$E_p - 115V$   
 $E_s - 6.3V - 2amps$        $\frac{N}{E} - 9.3$

SPEC. NO. 1468

Winding	PRI	SEC					
Turns	1070	66					
Taps	—	33					
Wind. Lgth.	1.25						
Wire Size	#29	#20					
T.P.L.	92-13	2L					
Kind Term.	sil Br	W.O.					
Term. Lgth.	3	3					
Layer Insul.	30#						
Wrapper	20056A	20056A					
TUBE	4007		IMPREGNATION		V.		
CURE	1X.6						



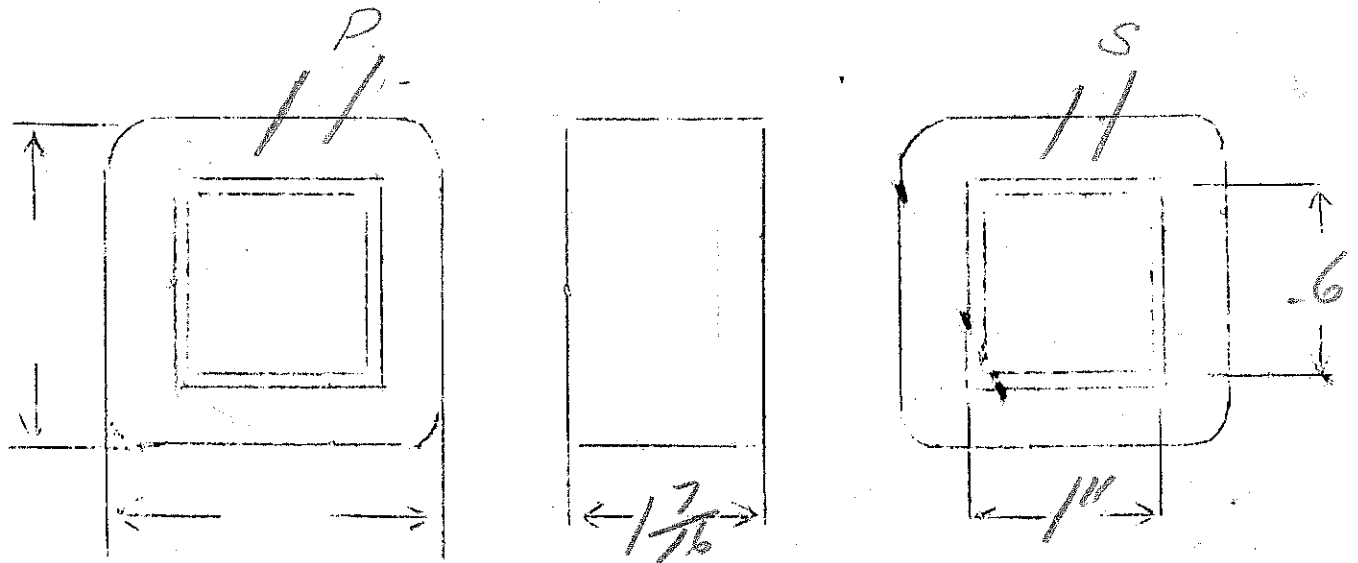


$E_p - 115V$   
 $E_s - 5V - 3 \text{ amps}$

$$\frac{N}{E} = 93$$

SPEC. NO. 1469

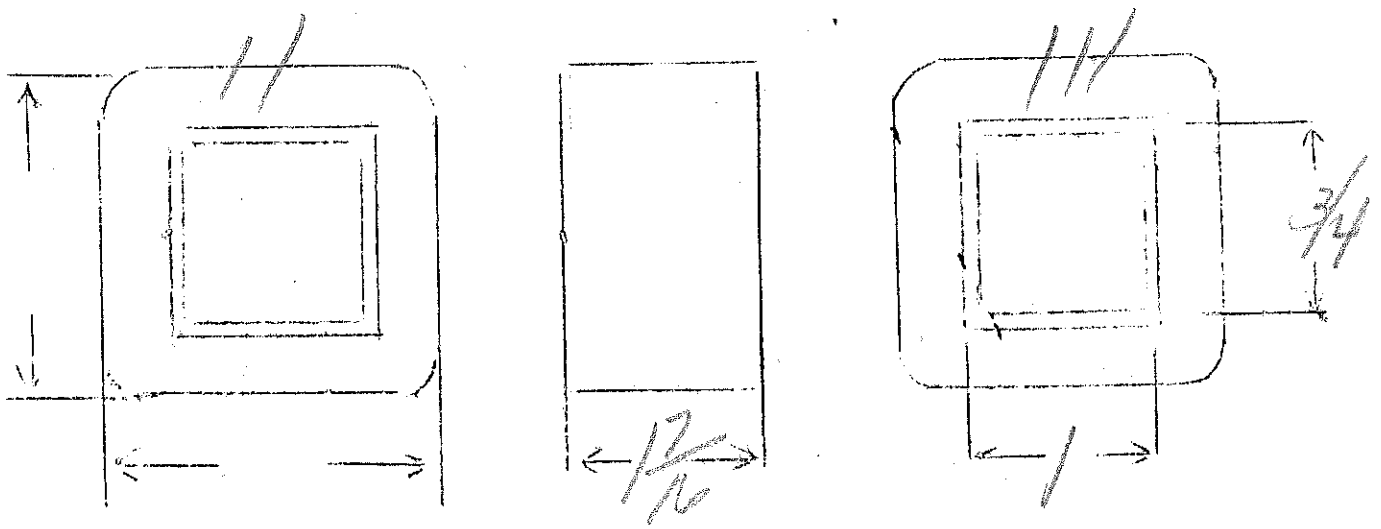
Winding	PRI	SEC				
Turns	1070	52				
Taps	—	26				
Wind. Lgth.	1.25					
Wire Size	#29	#18				
T.P.L.	92-13	2L				
Kind Term.	sil Br	W.O.				
Term. Lgth.	3	3'				
Layer Insul.	30#	—				
Wrapper	3L0056A	3L0056A				
TUBE	4L007		IMPREGNATION		VARNISH	
CURE	1x.6					



$E_p - 115V$   
 $E_s - 7.5V - 4 \text{ amps } \frac{N}{E} = 7$

SPEC. NO. 1470

Winding	P	S				
Turns	808	58				
Taps		29				
Wind. Lgth.	1.25					
Wire Size	27	#17				
T.P.L.						
Kind Term.	WONLY	WONLY				
Term. Lgth.	9"	9"				
Layer Insul.	30#					
Wrapper	2005GA	20056A				
TUBE	4L007		IMPREGNATION		V.	
CURE	1X 3/4					

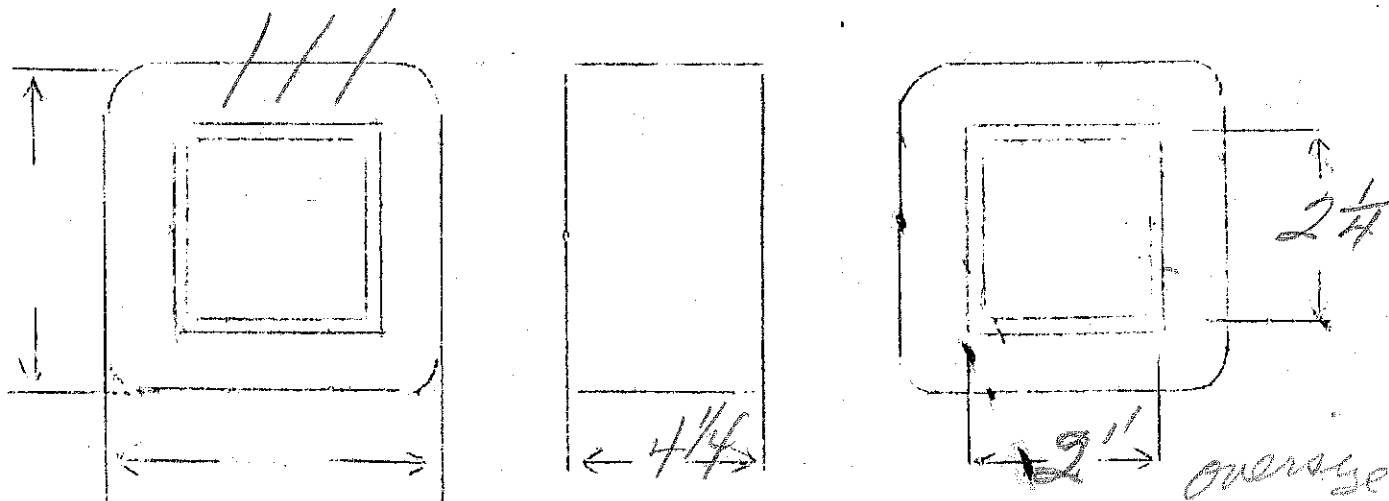


Ep - 115  
 Es - 3900V.CT. - 400ma  
 $\frac{N}{E} = 138$

SPEC. NO. 1471

Winding	SEC	PRI				
Turns	5840	158				
Taps	2920	-				
Wind. Lgth.	$3\frac{3}{4}$	-				
Wire Size	#25	#12				
T.P.L.	183-32	4L				
Kind Term.	WIPE	ONLY				
Term. Lgth.	6"	6"				
Layer Insul.	50#					
Wrapper	21007VC 21005GA	21005GA				
TUBE	106007+21007VC		IMPREGNATION		VARNISH	
CURE	2x2 1/4					

wind tight!



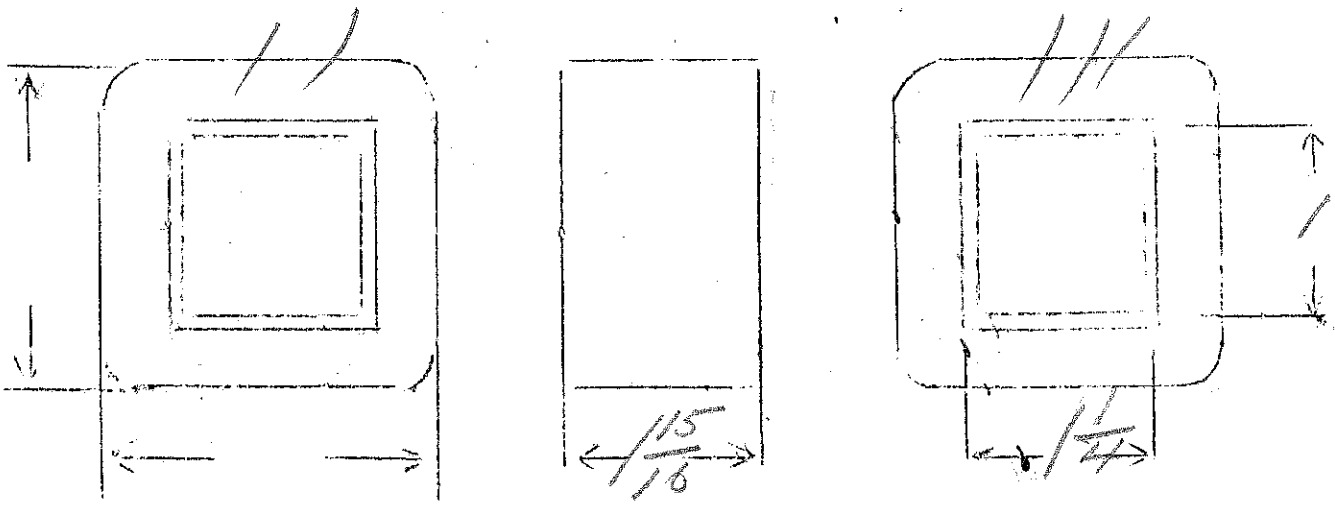
Ep-115

$\frac{N}{E} - 4/5$

Es - 10VCT - 9amps

SPEC. NO. 1472

Winding	PRI	SEC				
Turns	535	52				
Taps		26				
Wind. Lgth.	1.75					
Wire Size	#23	#12				
T.P.L.	68-8					
Kind Term.	WIPE ONLY	WIPE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	50#					
Wrapper	2L0076A	2L0076A				
TUBE	7L007		IMPREGNATION		YARNISH	
CURE	1/4X1					



MP C 10 3 0 15 0 18 1472

two pri windings - 120V tapped at 110

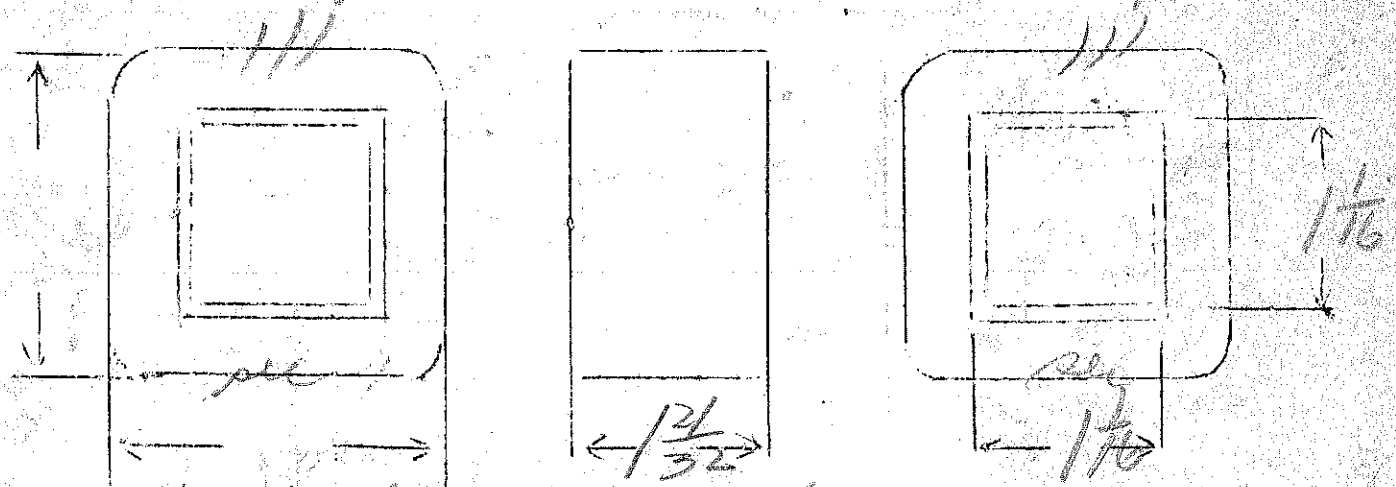
sec - 1-2-3-4-5-6-7-8-9-10-11-12V - 4 1/2A

$$\frac{N}{E} = 5.25$$

SPEC. NO. 1473

Winding	P <sub>1</sub>	P <sub>2</sub>		SEC	BIVR	
Turns	632	632		70 <sup>13</sup>		
Taps	580	580		6-11-17-23-29-34-40		
Wind. Lgth.	1 15/32	1 15/32		#16	46-52-58-63	
Wire Size	28	28				
T.P.L.	98-7	98-7				
Kind Term.	#20 round	#20 round				
Term. Lgth.	9"	9"				
Layer Insul.	30#	30#				
Wrapper	11007VC	210056A				
TUBE	7L007			IMPREGNATION	VARNISH	
CURE	1 1/16 x 1/16					

Pri start black  
 tap 110 - white  
 tap 120 - yellow



2 vertical brackets only - use taps as markers

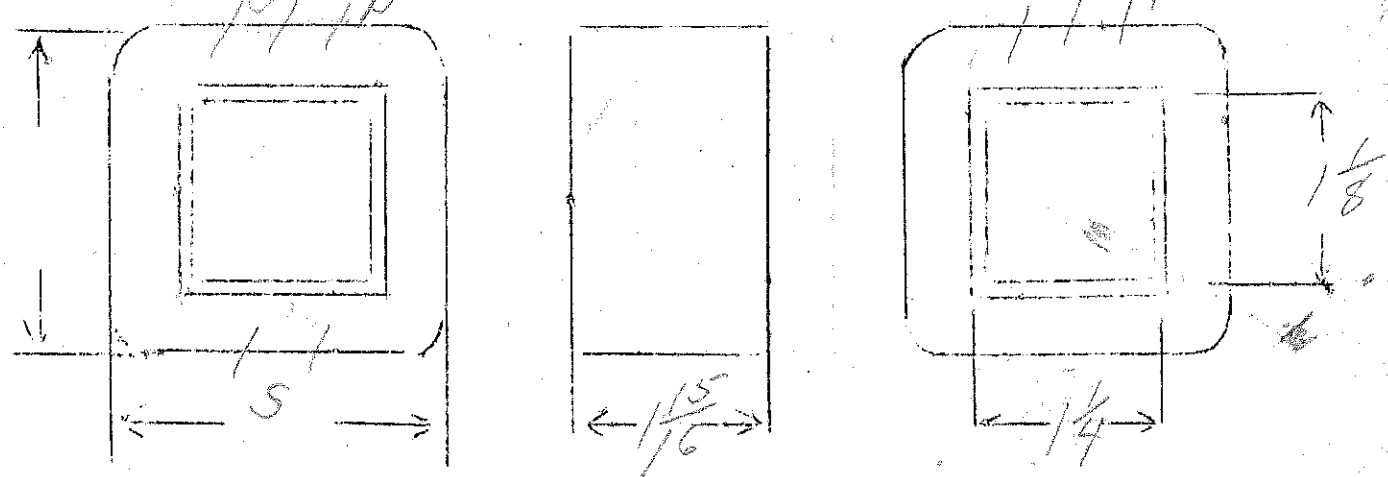
Ep - two windings 120V. taped at 110V.

Es - 12V. - 8 Amps.  $\frac{N}{E} = 4.4$

SPEC. NO. 1474

Winding	PRI	PRI	SEC			
Turns	528	528	<sup>white</sup> 58			
Taps	485	485	—			
Wind. Lgth.	1.75	1.75	—			
Wire Size	#25	#25	#13			
T.P.L.	82-7	82-7	3L			
Kind Term.	#20P Braid		Wire ONLY			
Term. Lgth.	9"	9"	9"			
Layer Insul.	40#	40#				
Wrapper	1L007VC	2L007BA	2L007GA			
TUBE	7L007	: IMPREGNATION		VARNISH		
CURE	1/4 x 1/8					

One start - Black  
 110 taps - white  
 120 turns - yellow  
 111P



2 - Vertical brackets only - all leads marked by tags

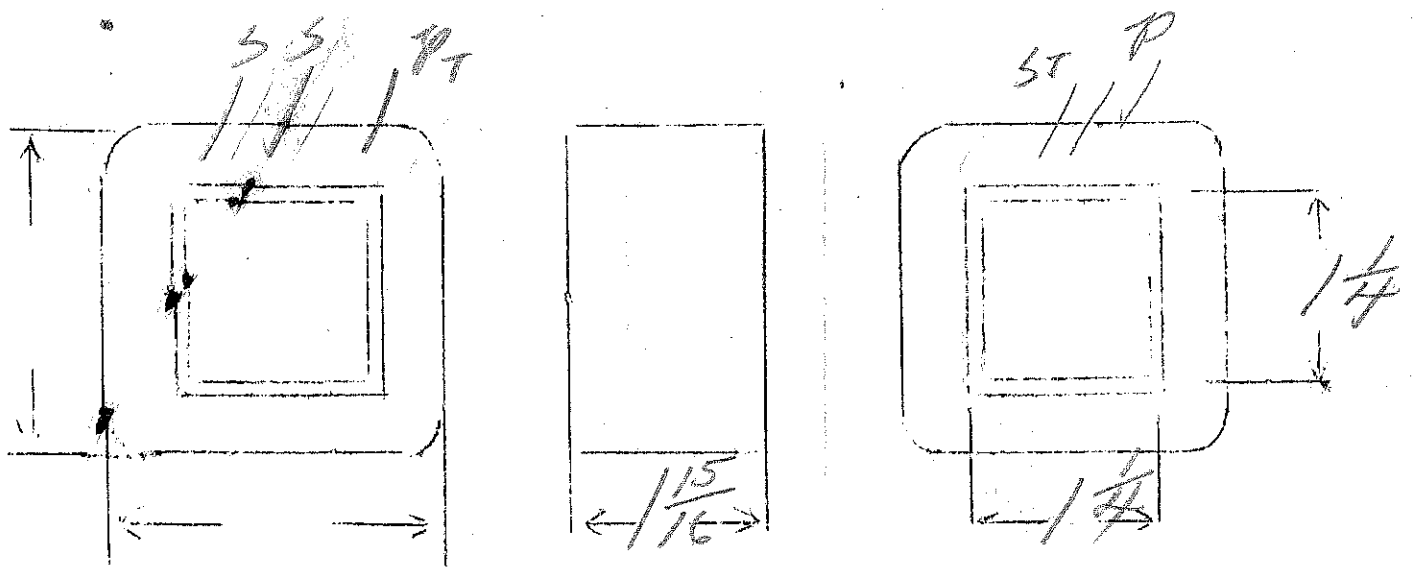
MGM

$E_p = 110 - 115 V$   
 $E_s = 700 V.C.T. - 175 MA$   
 $E_{F1} = 5V.C.T. - 4amps$   
 $E_{F2} = 6.3V.C.T. - 2.5amps$

$\frac{N}{F} = 3.8$

SPEC. NO. 1475

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	2860		438	21	26		
Taps	1430	—	418	10	13		
Wind. Lgth.	1.75	1.75	1.75	—	—		
Wire Size	#31	#31	#22	#17	#18		
T.P.L.	160-18		60-8				
Kind Term.	#20 parallel	sil Br	#20 parallel	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30#		50#				
Wrapper	1L007VC	1L007VC	2L007GA	2L007GA	2L007GA		
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1/4 x 1/4						

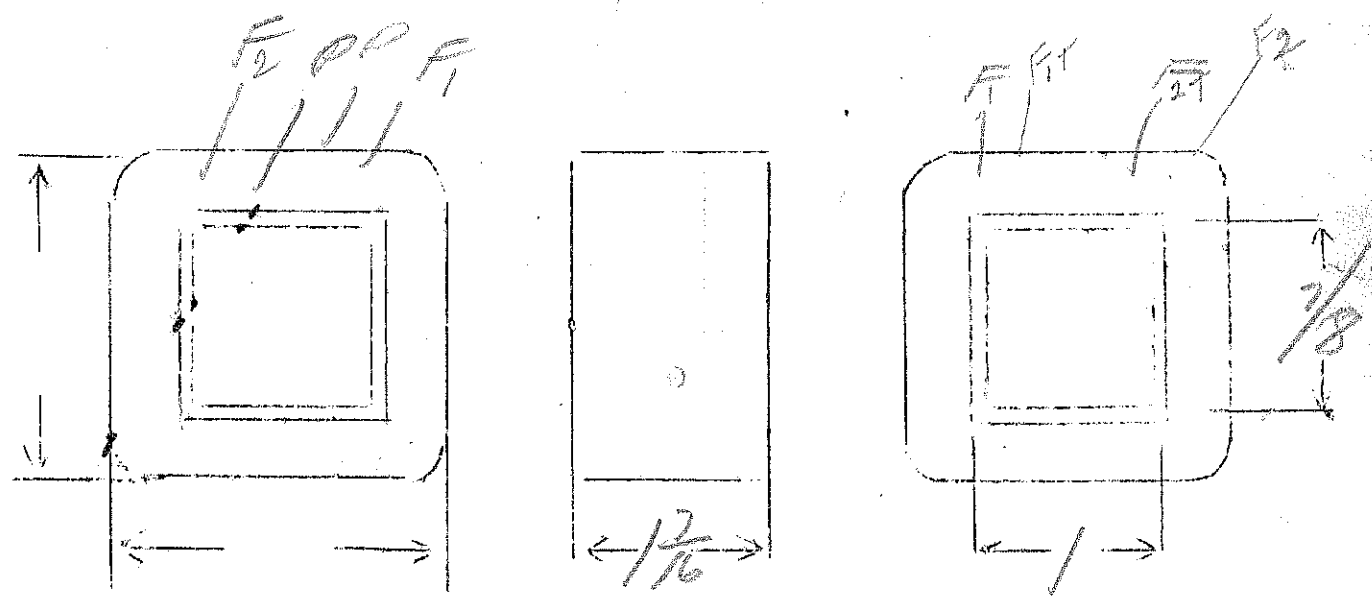


$E_p - 115V$   
 $E_{F1} - 5V - 3amps$   
 $E_{F2} - 6.3V - 2.5amps$

$\frac{N}{E} = 6.15$

SPEC. NO. 1476

Winding	PRI	F <sub>1</sub>	F <sub>2</sub>				
Turns	710	34	43				
Taps		17	22				
Wind. Lgth.	1.25						
Wire Size	27	#18	#19				
T.P.L.							
Kind Term.	wire only						
Term. Lgth.	3"	3"	3"				
Layer Insul.	30#						
Wrapper	20056A	20056A	20056A				
TUBE	42007	IMPREGNATION		V			
CURE	1X7/9						





ratio 1.31

85V to 110V 230 watts

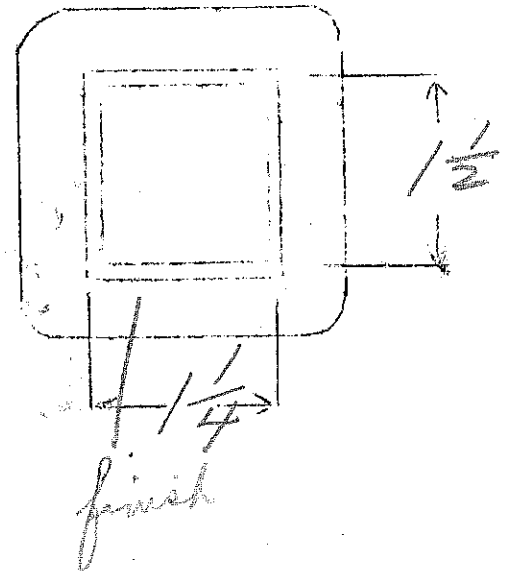
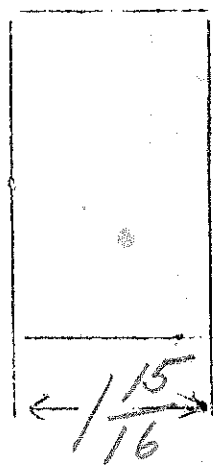
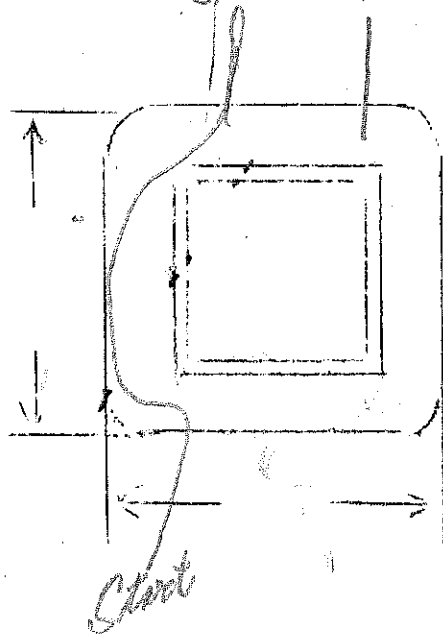
$$\frac{N}{E} = 3.33$$

SPEC. NO. 1477

*Continuous*

Winding	PRI					
Turns	300	93				
Taps	—	—				
Wind. Lgth.	1.75	1.75				
Wire Size	#19	#16				
T.P.L.	8L	4L				
Kind Term.	WIRE ONLY					
Term. Lgth.	5"	5"				
Layer Insul.	Kraft					
Wrapper	2L005GA					
TUBE	7L007		IMPREGNATION	VARNISH		
CURE	1 1/4 x 1 1/2					

*half shell start top*



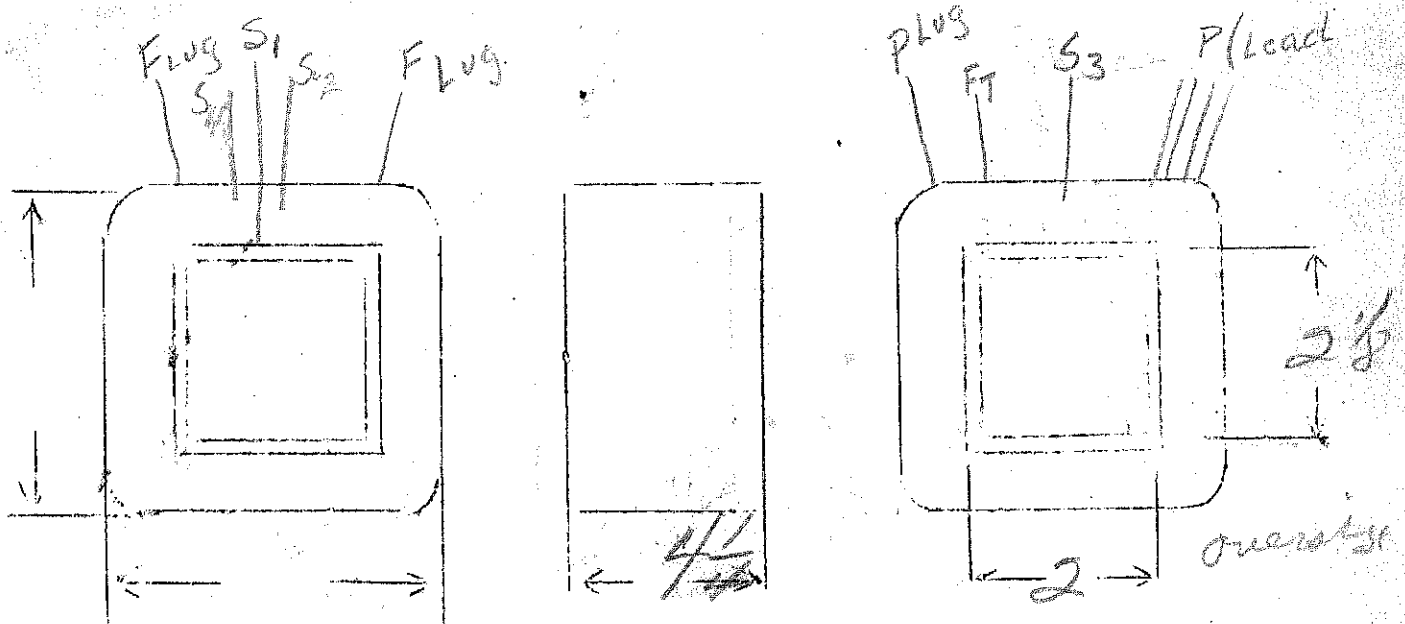
$E_p - 110 - 115 - 120 - 125$

$E_3 - 2250V \text{ tap } 2000 - 350Mq$

$E_{F1} - 11V - 7 \text{ taps } \frac{N}{F} = 142$

SPEC. NO. 1478

Winding	SEC	PRI	FIL			
Turns	3600	178 170	17			
Taps	3400 3200	164 157	8			
Wind. Lgth.	3 3/4	—	—			
Wire Size	#26	#12	#14			
T.P.L.	200-18					
Kind Term.	#20 002	start leg taps #20 002	WIRE ONLY			
Term. Lgth.	9"	9"	3"			
Layer Insul.	double 40#	007 Kraft				
Wrapper	22007VE 3L0056A	3L0056A	2L0056A 1L010RD			
TUBE	10L007+2L007VE		IMPREGNATION	VARNISH		
CURE	2 x 2 1/8					



lead on  $S_1$  placed at multiple machine  
 mty - aluminum shell with vent holes - "C" mty

bristan

See #1415

$\frac{V}{E} = 1.75$

Ep - 125 - 115 volts

Es - 2500V - 250 MA

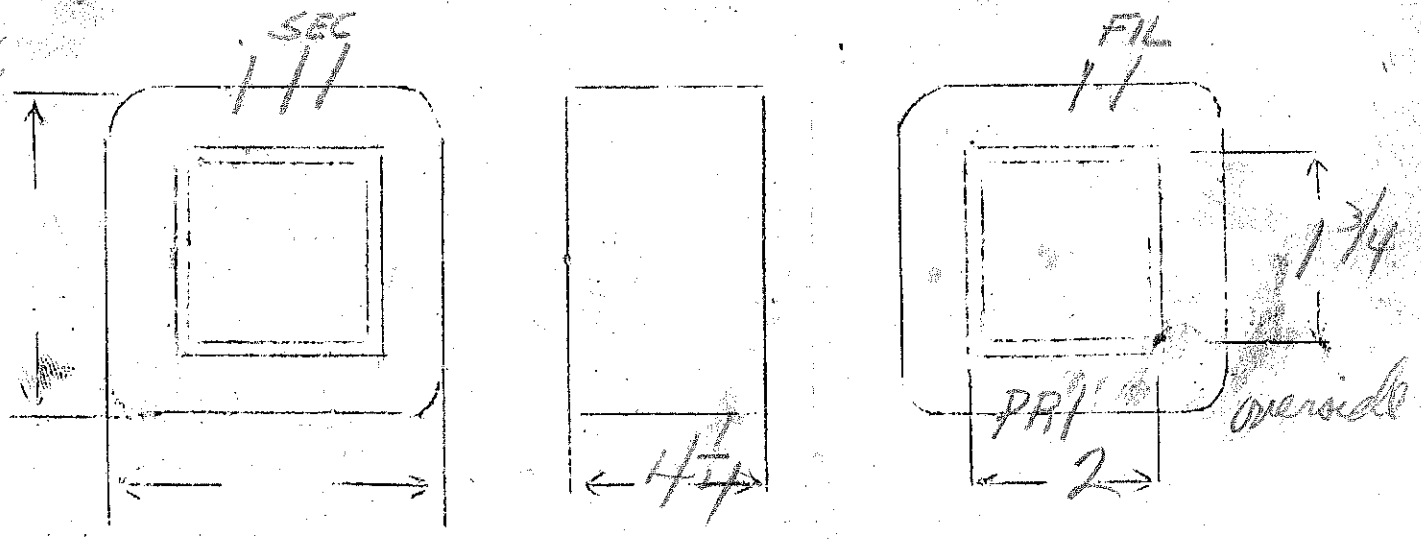
Ef - 10V - 5amps

SPEC. NO. 1479

Winding	SEC	PRI	FIL				
Turns	4700	218	21				
Taps	—	300	10				
Wind. Lgth.	3 5/8						
Wire Size	#27	double #15	#15				
T.P.L.	220-22	7L	12.				
Kind Term.	WIRE	ONLY					
Term. Lgth.	4"	12"	12"				
Layer Insul.	double 407 3L007VE	007 Kraft	—				
Wrapper	3L0050A	3L0056A	2L0056A 4010MB				
TUBE	10L007 + 2L007VE		IMPREGNATION		VARNISH		
CURE	2 x 1 3/4		2 x 2				

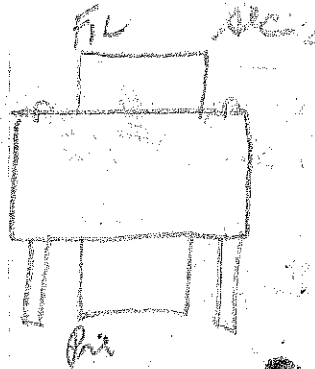
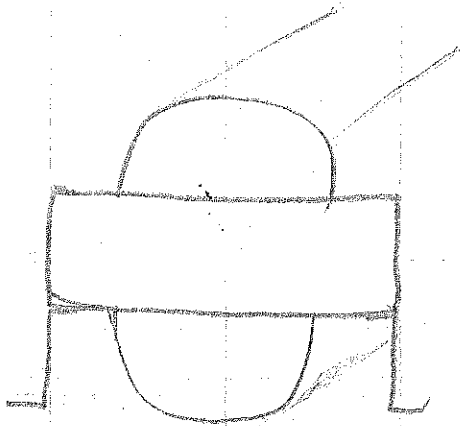
Panel on sec only  
spiral sec leads all on same side of coil

430/26  
57-6.3



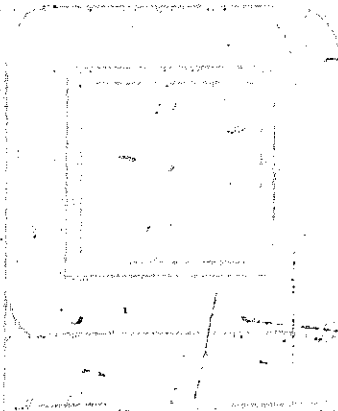
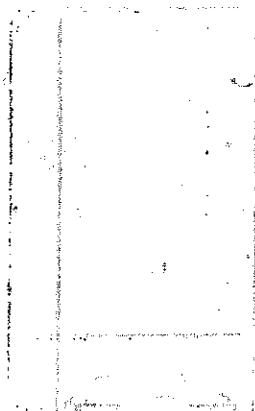
over

02 1052



Brackets as shown - drill for # 10 screw

FOITANDSWEN



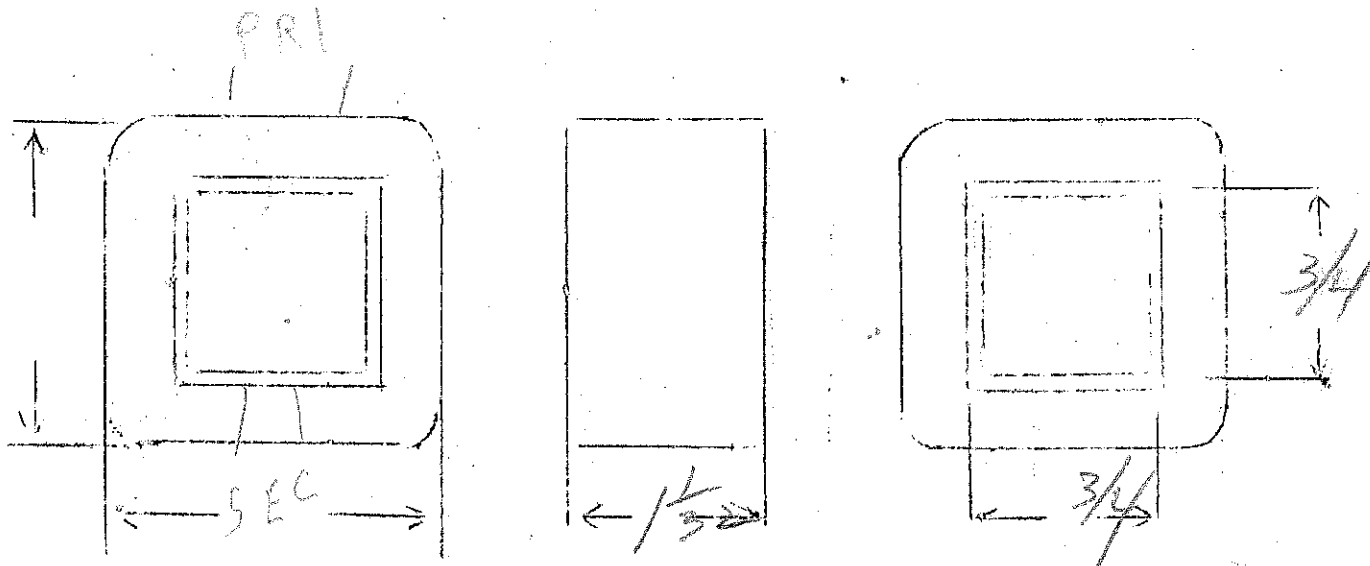
Ep - 115

E<sub>3</sub> - 10V, 1amp with electrostatic shield

$\frac{V}{E} = 105$

SPEC. NO. 1480

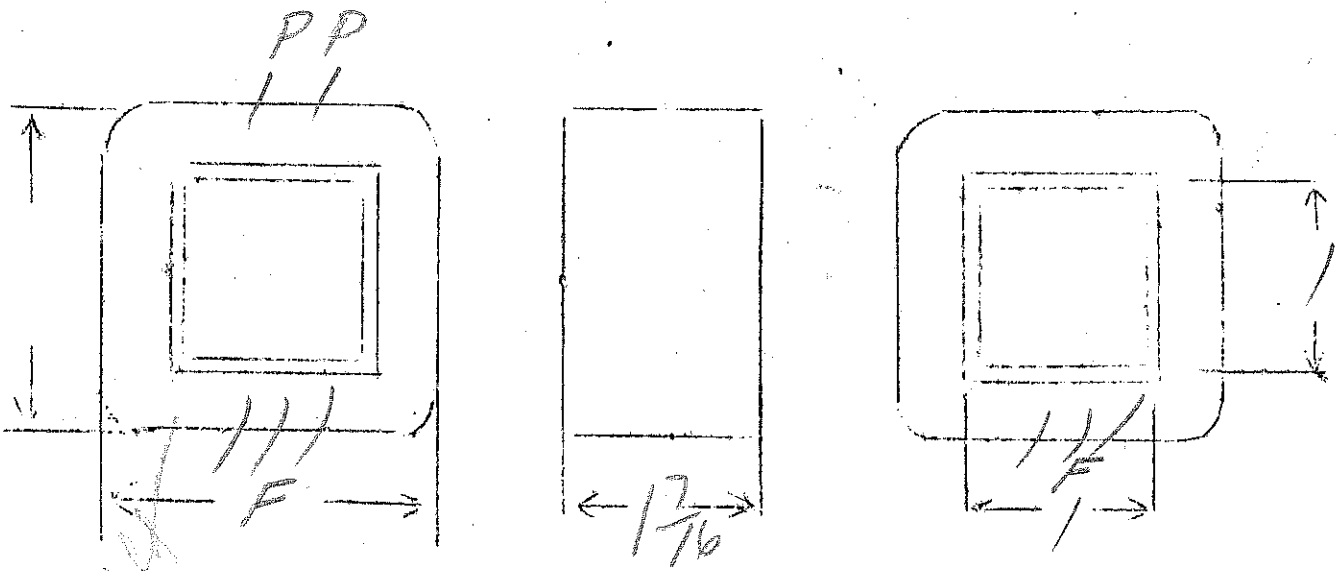
Winding	PRI	SEC	SEC			
Turns	1200	11	115			
Taps						
Wind. Lgth.	$\frac{27}{32}$					
Wire Size	#34	Buss	#21	if it won't stick use #22		
T.P.L.	112-10		52			
Kind Term.	SXBL					
Term. Lgth.	3"					
Layer Insul.	20#					
Wrapper	1L007VC	2L0056A	2L0056A			
TUBE	4L007	IMPREGNATION			✓	
CURE	3/4x 3/4	2x2	249a			



Ep - 115V  
 Es<sub>1</sub> - 5V - 3amps CT  
 Es<sub>2</sub> - 10V - 1amp

SPEC. NO. 1481

Winding	P	SEC <sub>1</sub>	SEC <sub>2</sub>				
Turns	630	30	60				
Taps	—	15	30				
Wind. Lgth.	1.25						
Wire Size	#27E	#17	#22				
T.P.L.	64-10						
Kind Term.	WIRE ONLY	—	→				
Term. Lgth.	3"	3"	3"				
Layer Insul.	30#						
Wrapper	210056A	210056A	210056A				
TUBE	4L007	IMPREGNATION		VARNISH			
CURE	1X1						

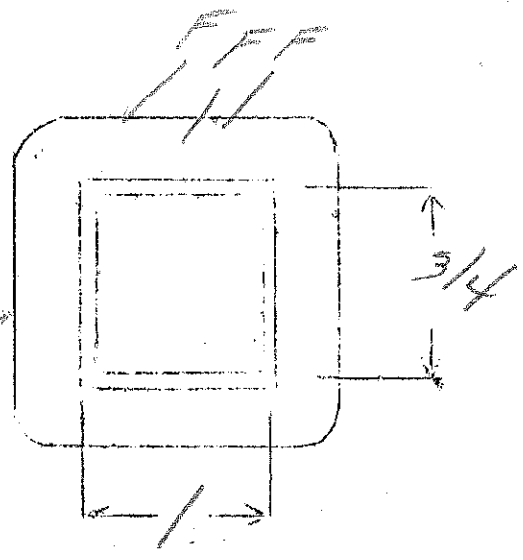
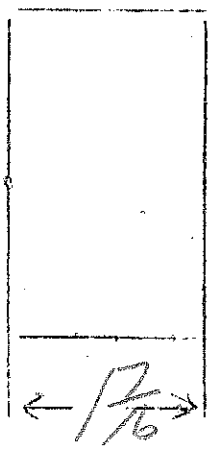
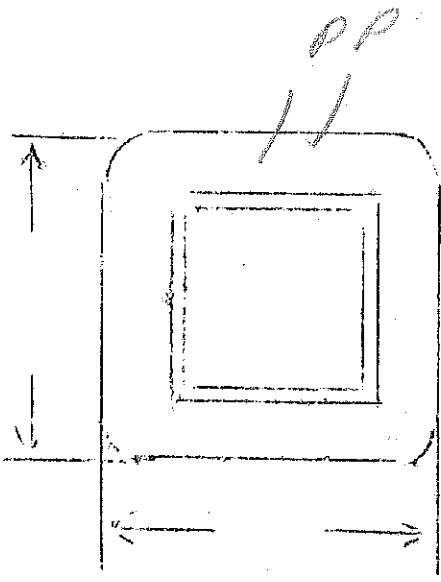


Ep-110V-120V  
 Es-5V-6amps

7.35

SPEC. NO. 1482

Winding	PR/	SEC				
Turns	880	41				
Taps	808	20				
Wind. Lgth.	1.25					
Wire Size	#27	#15				
T.P.L.	81					
Kind Term.	PPB	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	30#					
Wrapper	2L0056A	2L0056A				
TUBE	4L007		IMPREGNATION	VARNISH		
CURE	1X 3/4					



ES - 1200VCT. - 500 MA - 300 watts

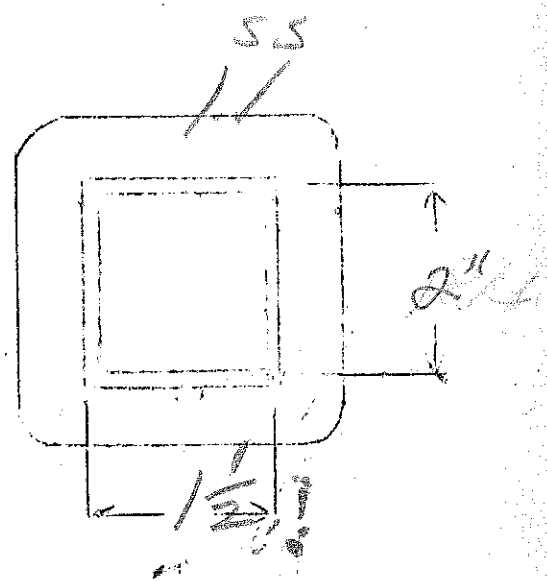
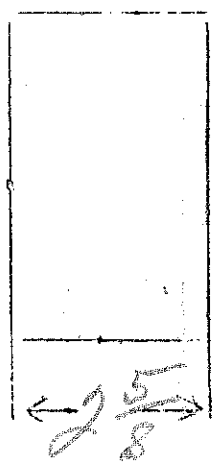
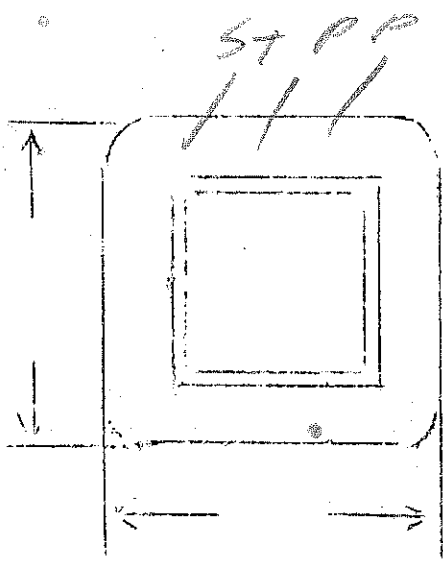
Jan 10 1941

EP<sub>1</sub> = 115

$$\frac{N}{E} = 2.0$$

SPEC. NO. 1483

Winding	SEC	PRI				
Turns	2630	230				
Taps	1315	-				
Wind. Lgth.	2 3/8	-				
Wire Size	#25	#17				
T.P.L.	111-24	5L				
Kind Term.	W.O.	W.O.				
Term. Lgth.	3"	3"				
Layer Insul.	50#					
Wrapper	11007VC	210056A				
TUBE	7L007+11007VC		IMPREGNATION	VARNISH.		
CURE	1 1/2 x 2"					





Ep-110-115-120'

Es - 2200V - 350 Ma

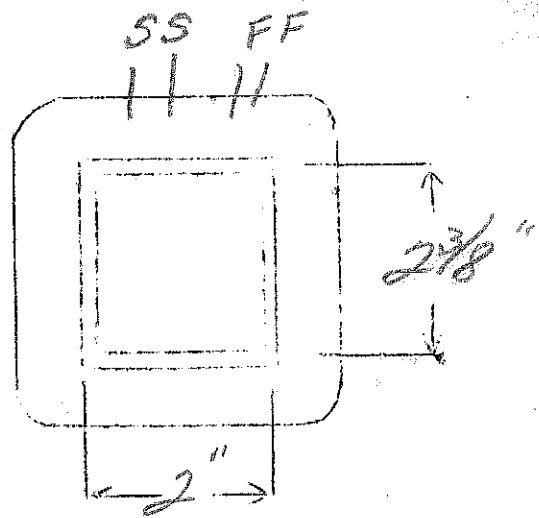
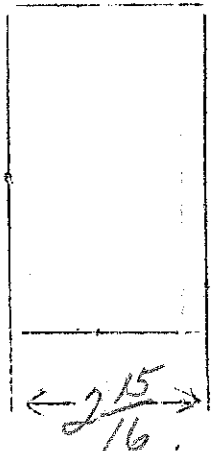
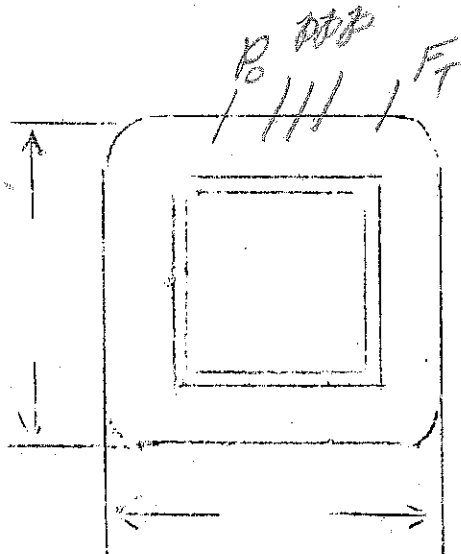
Ef1 - 21V - 3.5 amps

$\frac{N}{E} = 1.31$

SPEC. NO.

1484

Winding	SEC	PRI	FIL				
Turns	3100	158	30				
Taps	—	152 145	15				
Wind. Lgth.	2 $\frac{7}{16}$	✓	✓				
Wire Size	#26	#12	double #20				
T.P.L.	130-24	6L	✓				
Kind Term.	WIRE ONLY						
Term. Lgth.	✓	✓					
Layer Insul.	double 30#	Kraft					
Wrapper	2L007VC 2L0056A	2L0056A	2L0056A 1L010RP				
TUBE	10L007A 1L007VC			IMPREGNATION	VARNISH		
CURE	2 x 2 $\frac{3}{8}$ cut $\frac{1}{8}$ " off E						

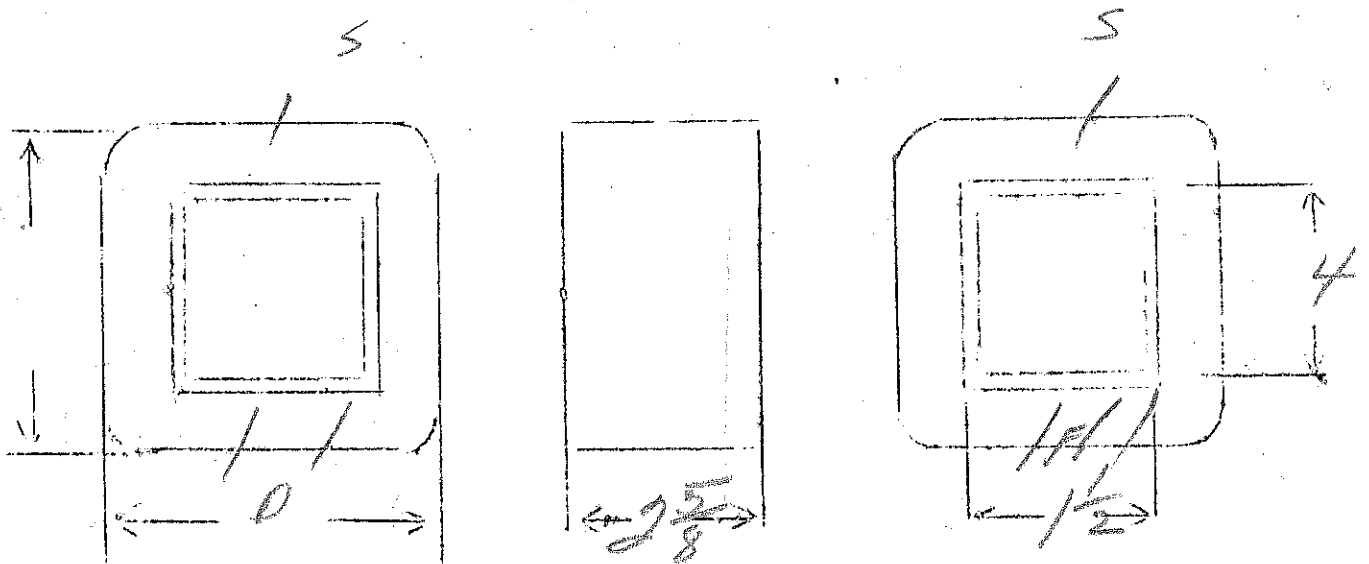


Ep - 115  
 Es - 1300V - 360M4  
 Ef1 - 10V 7amp CT

$\frac{N}{E} = 1$

SPEC. NO. 1485

Winding	SEC	PRI	FIL				
Turns	1430	116	11				
Taps	—		5				
Wind. Lgth.	2 3/8						
Wire Size	#25	#13	double #20				
T.P.L.	112-13	4L					
Kind Term.	WIRE	ONLY					
Term. Lgth.	4	4	4				
Layer Insul.	double 30#						
Wrapper	2L0070C 2L0056A	2L0056A	2L0056A				
TUBE	9L007H 1L007VC			IMPREGNATION	VARNISH		
CURE	1 1/2 x 4"						

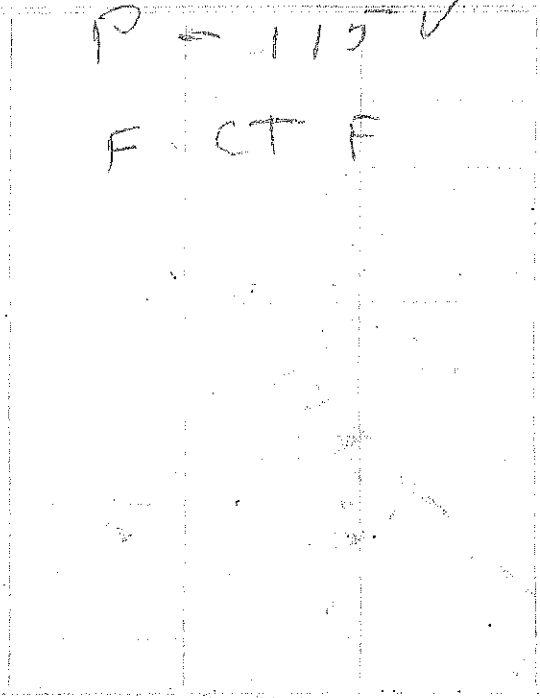
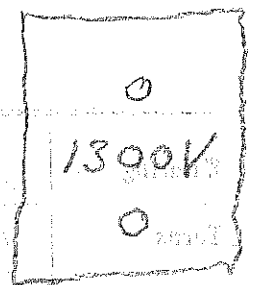
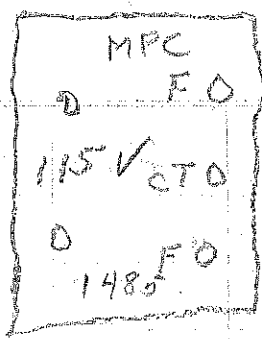


S - 1300

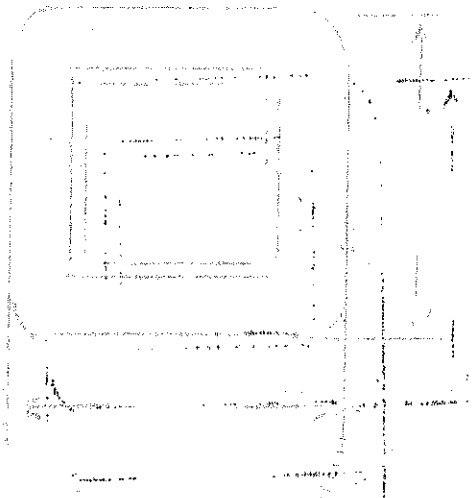
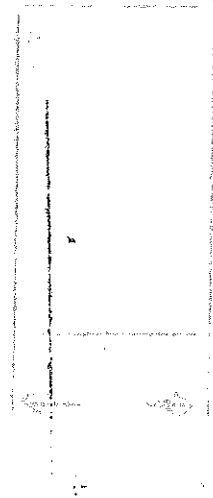
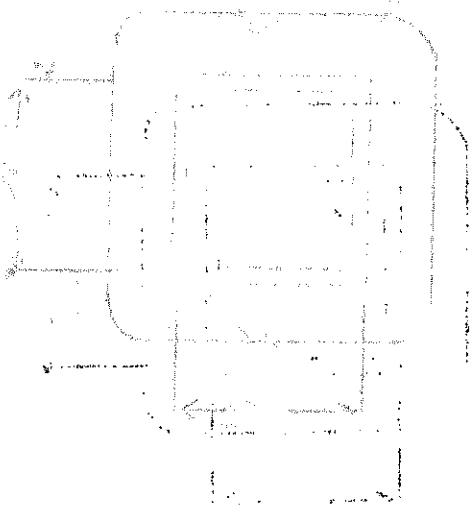
01 0392

P = 117 V

F C T F



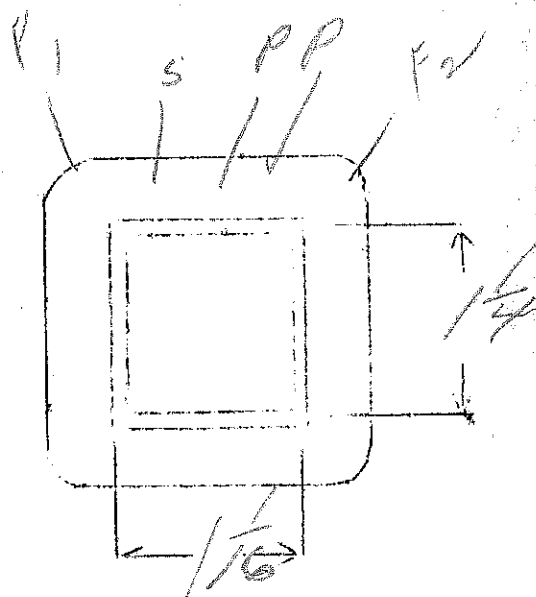
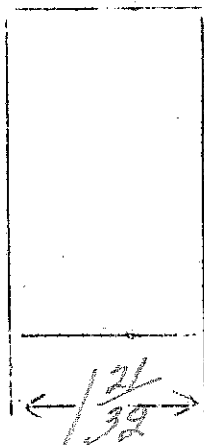
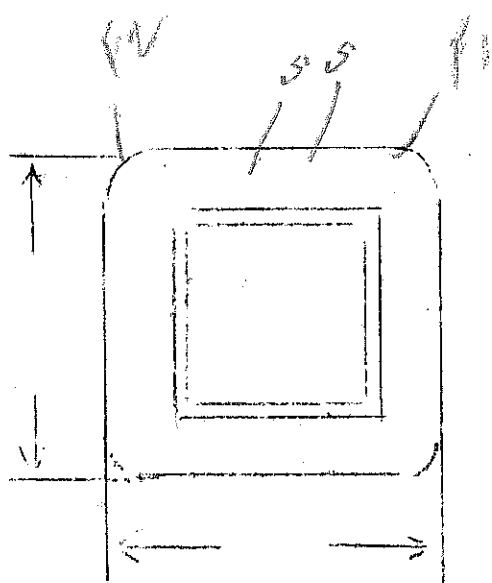
NOITAMOSTUM



Ep-230V  
 Es-200V.C.T. - 80MA  
 Ef-5V-2amp  
 Ef-6.3V-2amp

SPEC. NO. 1486-230 volt

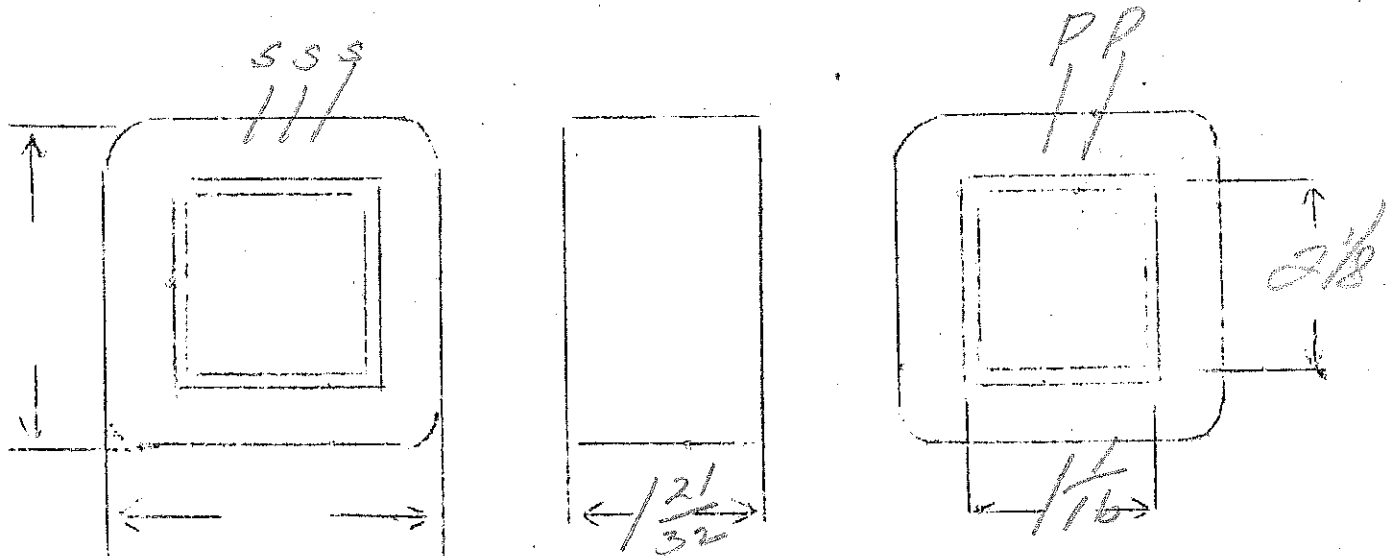
Winding	SEC	SH.	PR1	<sup>green</sup> F <sub>1</sub>	<sup>blue</sup> F <sub>2</sub>		
Turns	3350	190	1010	25	31		
Taps	1675	-	-	-	-		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	-	-		
Wire Size	#34	#34	#26	#20	#20		
T.P.L.	190-18	190	79-13	-	-		
Kind Term.	#20 strand	silver	#20 strand	WIRE ONLY			
Term. Lgth.	9"	3'	9"	9"	9"		
Layer Insul.	double 16		40#				
Wrapper	2007VC	2007VC	2005GA	2005BA	2005GA		
TUBE	72007	IMPREGNATION			VARNISH		
CURE	$\frac{1}{16} \times \frac{1}{4}$						



Ep-115V-25N  
 Es-700V-80Ma  
 Ef1-5V-2amps  
 Ef2-6.3V-2amps

SPEC. NO. 1486-25N

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	3420	191	505	26	32		
Taps	1710	—	—	—	—		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{13}{32}$				
Wire Size	#34	#34	#23	#20	#20		
T.P.L.	191	191	52-10				
Kind Term.	#20 PBrid	sk PBrid	#20 PBrid	WIRE ONLY			
Term. Lgth.	9	3	9	9	9		
Layer Insul.	double 16#	—	40#				
Wrapper	2L007VC	2L007VC	2L005GA	2L005GA	2L005GA		
TUBE	2L007			IMPREGNATION		VARNISH	
CURE	$1\frac{1}{16} \times 2\frac{1}{8}$						



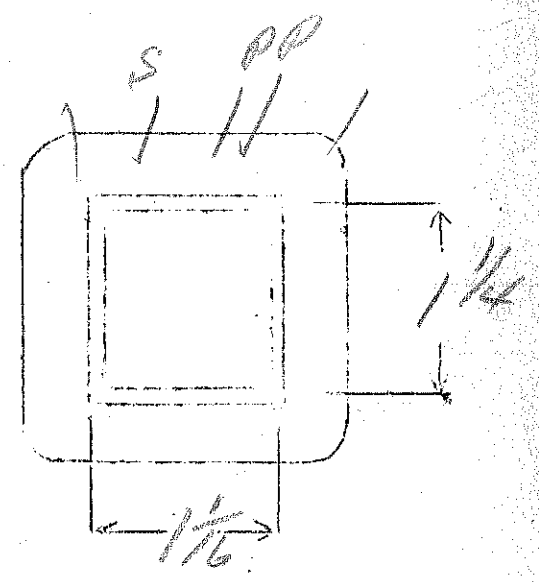
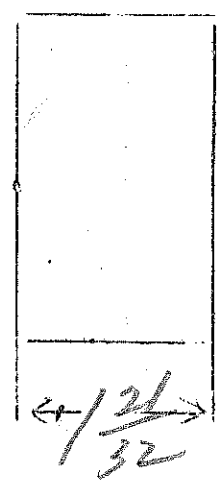
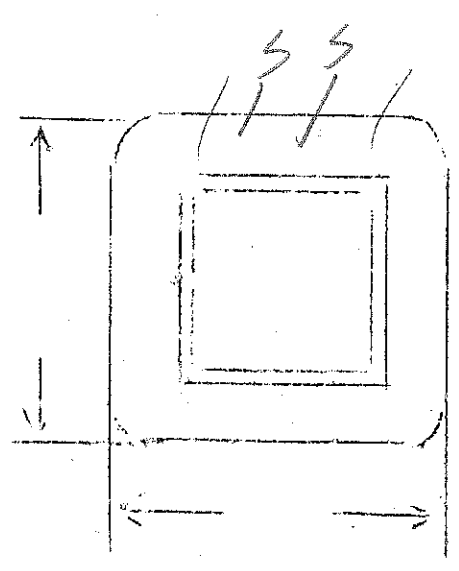
$E_p - 115V$   
 $E_s - 700V - 80Ma$   
 $E_{F1} - 5V, 2amps$   
 $E_{F2} - 6.3V - 2amps$

$$\frac{N}{F} = 4.4$$

2-42  
 1-606  
 -80

SPEC. NO. 1486

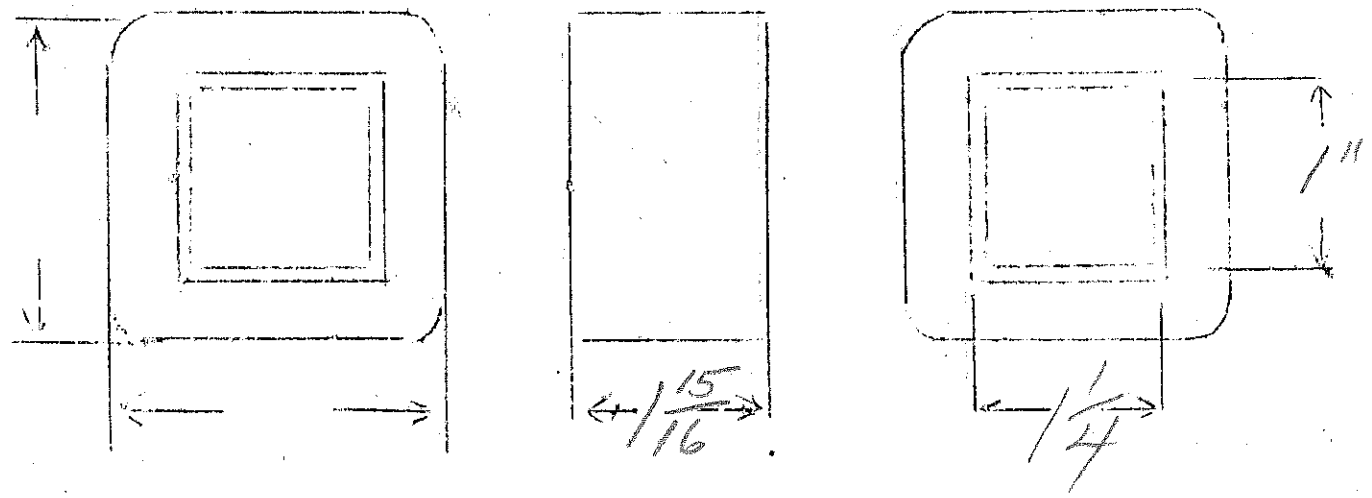
Winding	SEC	SHIELD	PR1	F <sub>1</sub>	F <sub>2</sub>		
Turns	3350	190	505	25	31		
Taps	1675			—	—		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{15}{32}$	—	—		
Wire Size	#34	#34	#23	#20	#20		
T.P.L.	190-18	190	52-10				
Kind Term.	#20 enamel	silver	#20 enamel	WIRE ONLY			
Term. Lgth.	9	3	9	9	9		
Layer Insul.	30 #	✓	50 #	—	—		
Wrapper	12007VC	12007VC	210056A	210056A	210056A		
TUBE	72007			IMPREGNATION		✓	
CURE	1 $\frac{1}{16}$ x 1 $\frac{1}{4}$						



$E_p = 115V$   
 $E_s = 1450V - 25ma$   
 $E_f = 7.5V - 2amp$

35  
 15  
 $\frac{N}{E} = 4.6$   
 Back 5000  $\mu$  dia from core pri  
 SPEC. NO. 1487

Winding	PRI	SHIELD	SEC	FIL		
Turns	530	264	7300	38		
Taps				19		
Wind. Lgth.	1 5/8	1 3/8	1 3/8			
Wire Size	#25	#37	#37	#20		
T.P.L.	77-7	264	264-28			
Kind Term.	oil board			WIRE		
Term. Lgth.	3"	3"	3"	3"		
Layer Insul.	40#		30#			
Wrapper	2L007VC	4L007VC	4L007VC	2L007VC		
TUBE	7L007		7L007A		IMPREGNATION	VARNISH
CURE	1X7 1/4					



Same as #6210 - 42 cycles

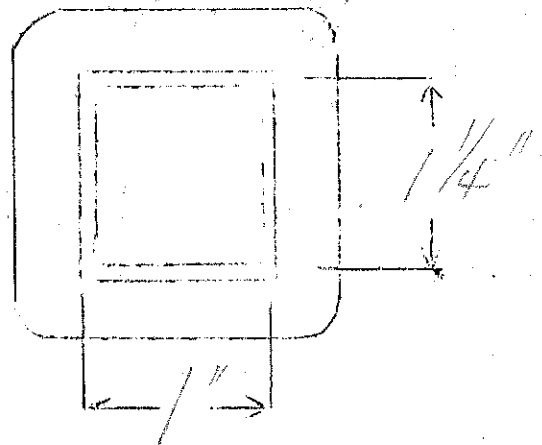
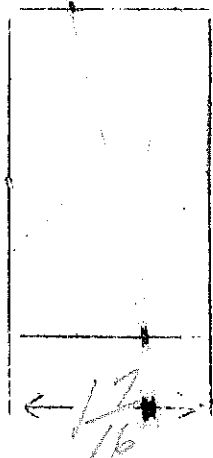
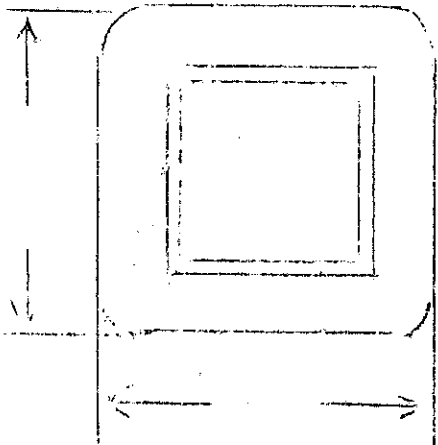
wind sec. first.

SPEC. NO. 1488

Winding	SEC	SHIELD	PRI				
Turns							
Taps							
Wind. Lgth.							
Wire Size							
T.P.L.							
Kind Term.							
Term. Lgth.							
Layer Insul.							
Wrapper							
TUBE				IMPREGNATION	VARNISH		
CURE	1 X 1/4						

all wind up exactly as #6210

Correct  
To 3/4" 6V wire out to for  
on ends





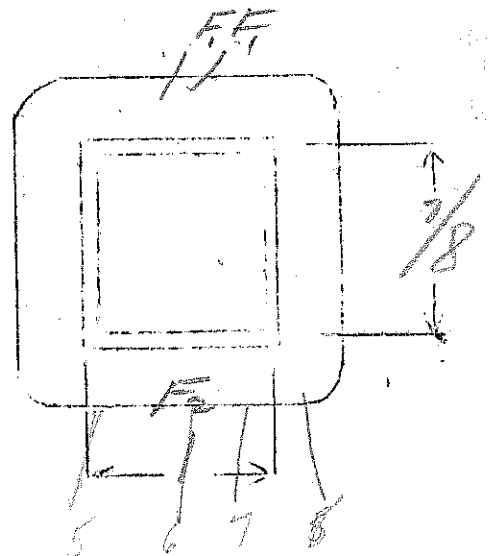
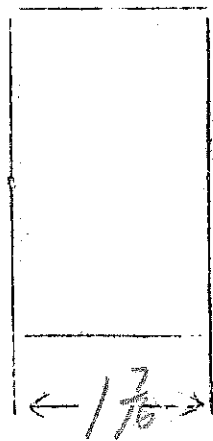
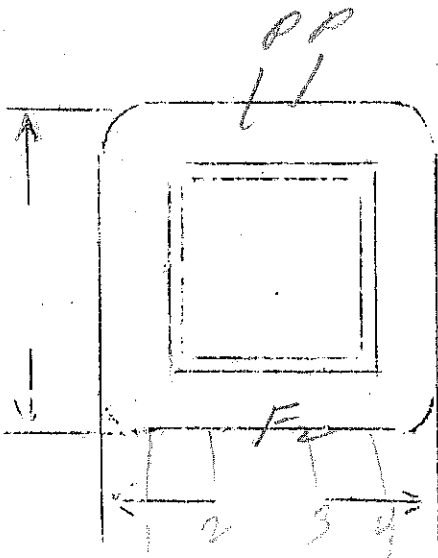
Ep-115V  
2.5V-10amp

$$\frac{N}{E} = 6.15$$

Ⓚ

SPEC. NO. 1489

Winding	PRI	F <sub>1</sub>	F <sub>2</sub>			
Turns	710	17	50			
Taps		8	44-38-31-25-19-12 (w/4)			
Wind. Lgth.	1.25					
Wire Size	#27	#13	#20			
T.P.L.						
Kind Term.	WIRE ONLY					
Term. Lgth.	3"					
Layer Insul.						
Wrapper	20056A	20056A				
TUBE	4L007	IMPREGNATION			V	
CURE	1X7/8					



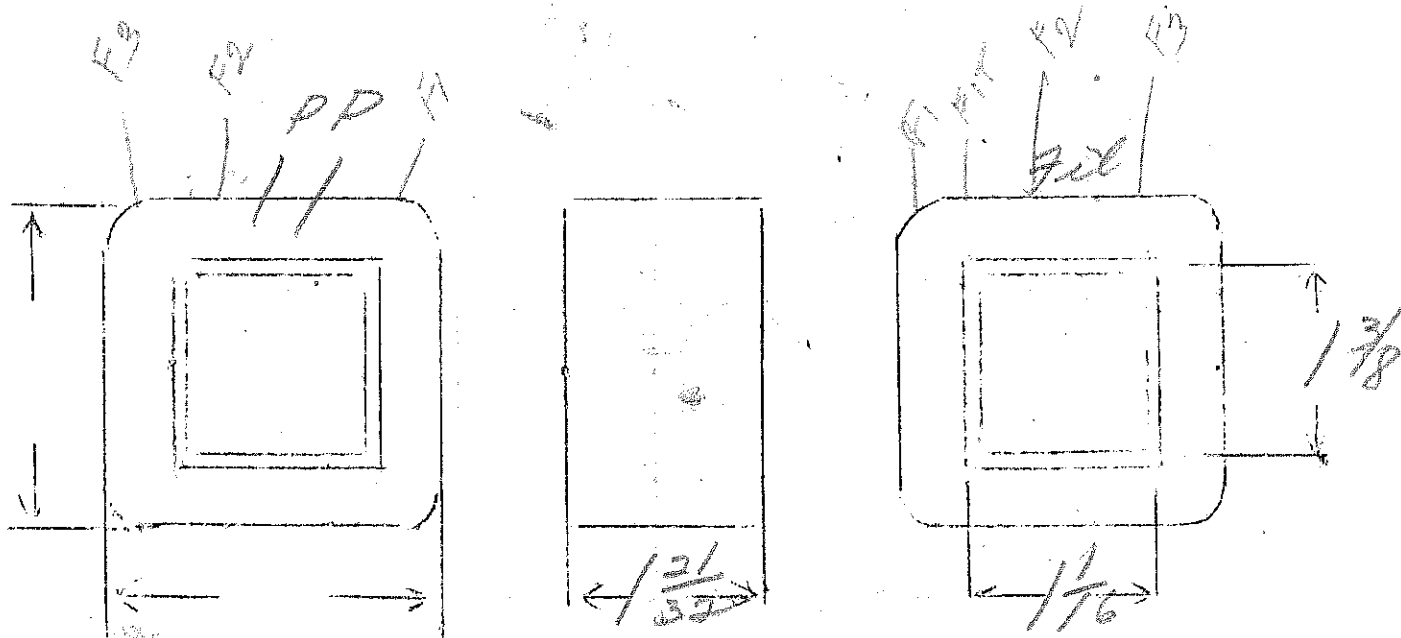
$E_p - 115V$   
 $E_{F1} - 7.5V - 5amp$   
 $E_{F2} - 2.5V - 5amp$   
 $E_{F3} - 5V - 3amp$

VA  
 $\frac{V}{E} = 4$

SPEC. NO. \_\_\_\_\_

1490

Winding	PRI (same as 2.30)	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>		
Turns	460	33	11	22		
Taps	—	16	—	—		
Wind. Lgth.	1 15/16	✓	✓	✓		
Wire Size	24	#15	#15	#18		
T.P.L.	60-8					
Kind Term.	WIRE ONLY	WIRE ONLY				
Term. Lgth.	3"	3"	3"	3"		
Layer Insul.	50#	✓	✓	✓		
Wrapper	310056A	310056A	310056A			
TUBE	71007	IMPREGNATION		VARNISH		
CURE	1 1/16 x 1 3/8					

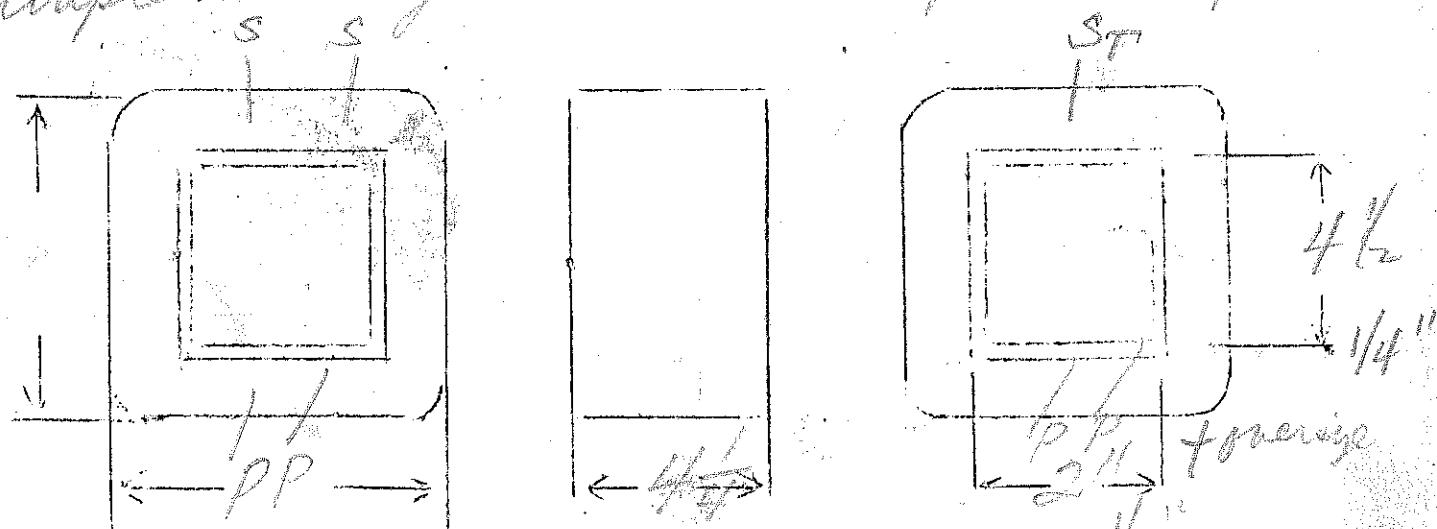


6000V.C.T. - 500Ma Breakdown 10,000V  
 Ep = 115 or 230 (Ground sec CT after setting)

SPEC. NO. 14916

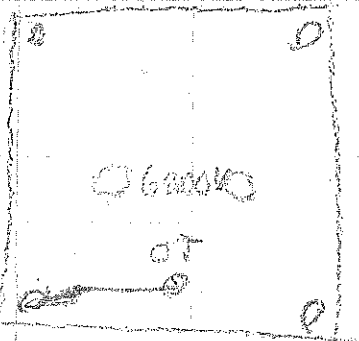
Winding	P <sub>1</sub>	P <sub>2</sub>	SEC			
Turns	81	81	4500			
Taps	-	-	2250			
Wind. Lgth.	3 3/4		3 1/2			
Wire Size	#12	#12	#24			
T.P.L.	41-2	41-2	151-30			
Kind Term.	WIRE	ONLY				
Term. Lgth.	6"	6"	6"			
Layer Insul.	70# KRAFT		50#			
Wrapper	21005GA	21005GA 21007VC	21005GA 21007VC			
TUBE	102007			IMPREGNATION		VARNISH
CURE	2 x 4 1/2					

Primary to be single wound and pressed before multiple winding. Field .010 VC over pri to be pulled

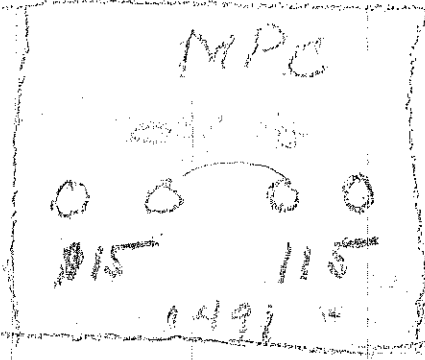


out after coil is wound. Keep sec leads away from corners  
 In assembly use Insulat in edges & over sec.

OK 2090

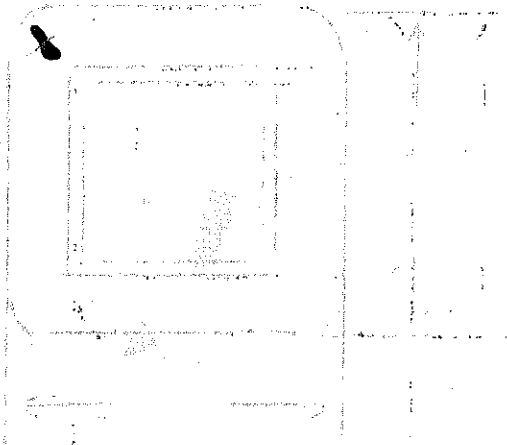
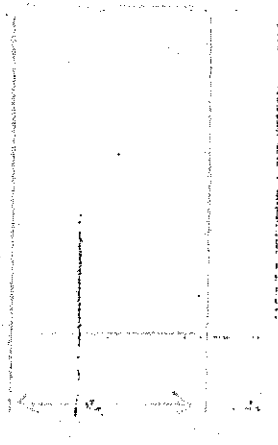
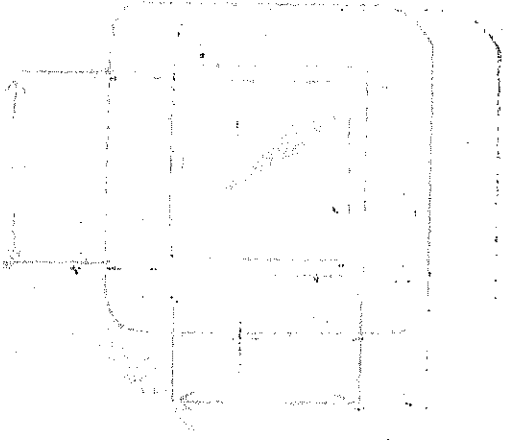


Handwritten scribbles or notes.



Vertical text on the right side of the page, possibly bleed-through from the reverse side. The text is mostly illegible but appears to include words like 'MPC', '115', and '1491'.

Vertical text in the middle of the page, possibly bleed-through.

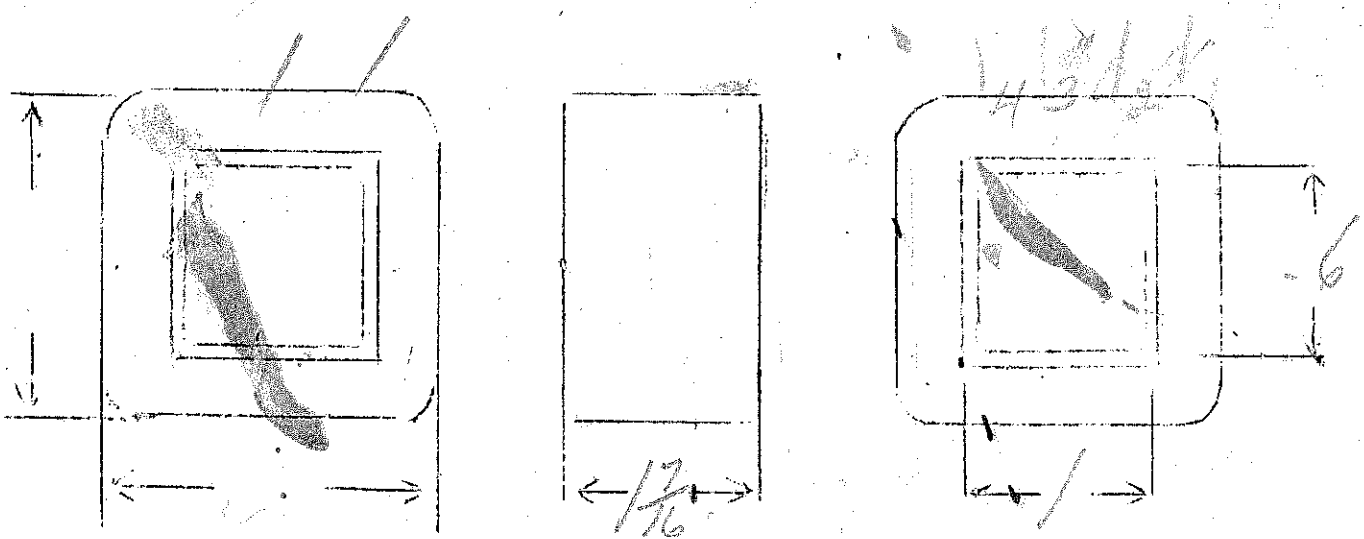


Ep - 115  
 Es - 6, 2.5, 1 V - 4amp

93

SPEC. NO. 1492

Winding	PRI	SEC				
Turns	1070	62				
Taps	—	26 - 10				
Wind. Lgth.	1.25					
Wire Size	#29	#17				
T.P.L.	92-13					
Kind Term.	ALB2	ANPE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	30#					
Wrapper	2L0056A	2L0050A				
TUBE	42007		IMPREGNATION		V.	
CURE	1X-6 NW					



Start - White  
 1 volt - Red  
 2.5 volt - Black  
 6 volt - Blue

L.03

$E_p - 118$

$B = 13000$

$E_s - 680V$

$\frac{N}{F} = 4.6$

$E_{F_1} - 5V - 2amps$

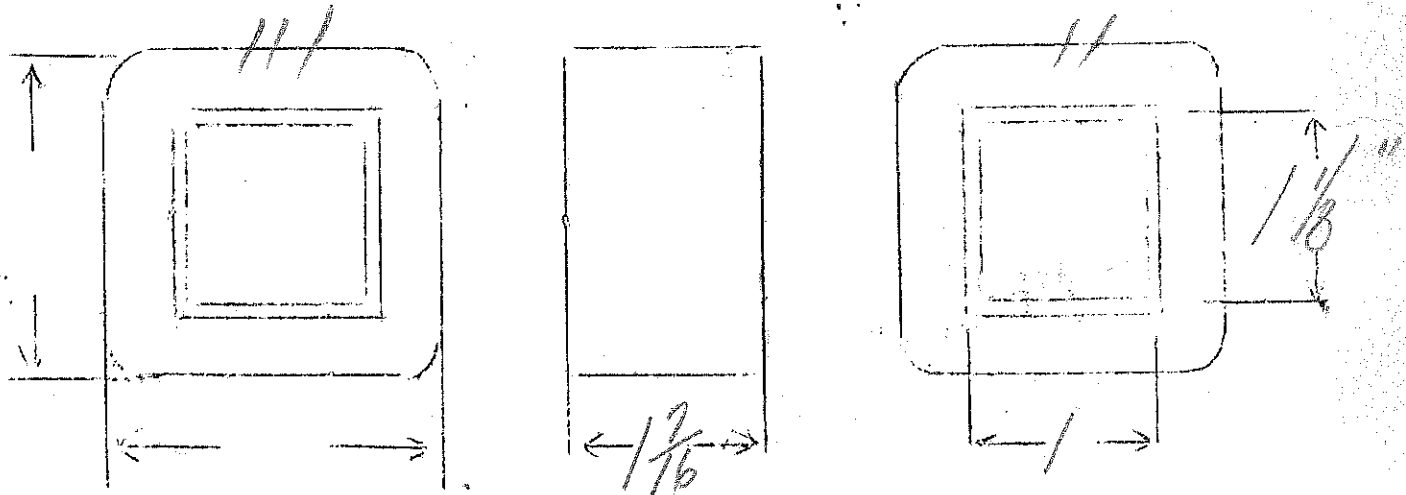
SPEC. NO.

1493

(A)

$E_{F_2} - 2.5V - 5amps$

Winding	SEC	SHIELD	PRI	F <sub>1</sub>	F <sub>2</sub>		
Turns	3500	200	542	13	26		
Taps	1750	—	—	—	—		
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#36	#36	26	#20	#20		
T.P.L.	197-18	200	68-8				
Kind Term.	AlBr	W.O.	AlBr	WIRE	ONLY		
Term. Lgth.	3" double	3"	3"	3"	3"		
Layer Insul.	20#		30#				
Wrapper	1L007VC	1L005VP	2L0056A	2L0056A	2L0058A		
TUBE	72007			IMPREGNATION	VARNISH		
CURE	1x1 1/8 MW						



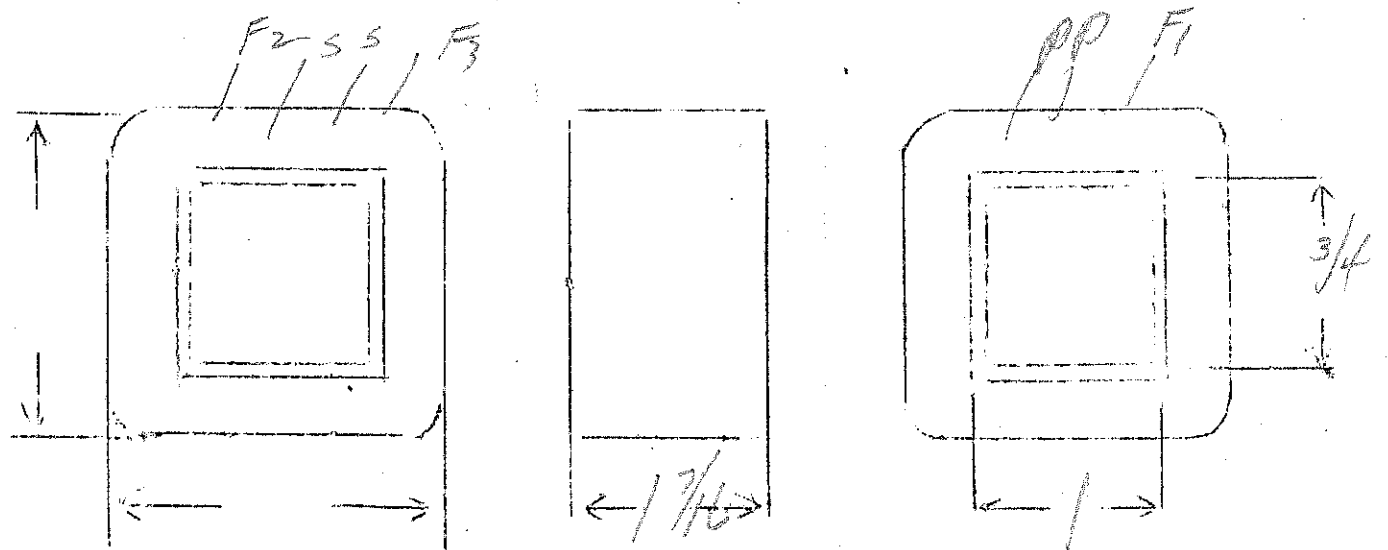
Ep-110

E<sub>1</sub> - 320V - 1 watt

E<sub>F1</sub> - 10V - 3 amp } joined  
 E<sub>F2</sub> - 5V - 3 amp }

SPEC. NO. 1495

	same as # 8 and		continuous				
Winding	P	S	F <sub>1</sub>	F <sub>2</sub>			
Turns	850	2600	84	42			
Taps	—	—	—	—			
Wind. Lgth.	1.25	1.25	—	—			
Wire Size	#27	#38	#18 (19)	#18			
T.P.L.	72-12	262-10					
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	30#	16#	Kraft	70#			
Wrapper	1L007VC	2L0056A		2L0056A			
TUBE	4L007		IMPREGNATION		VARNISH		
CURE							



C mtg - 2 only diagonal RHIMS  
 when shipping furnish 2 - 2 1/4" RHIMS + nuts (loose)

$E_p = 115V$

$\frac{N}{E} = 2.1$

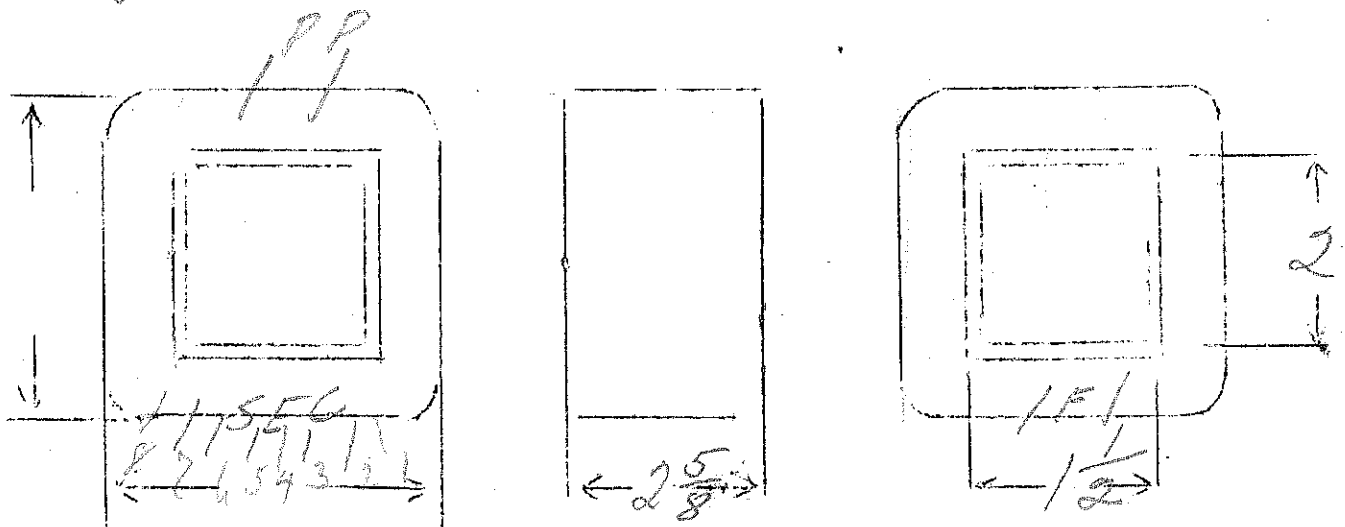
$E_s = 2.6V - 18 \text{ amps}$

$E_{s2} = 37.5 - 34 - 31 - 28 - 25 - 22 - 19V - 6 \text{ amp}$

SPEC. NO. 1496

Winding	PRI	SEC	FIL				
Turns	242	79-72	6				
Taps	-	66-59					
Wind. Lgth.	2'4"	52-46					
Wire Size	#17	#13	double #13				
T.P.L.	6L	3L	1L				
Kind Term.	NIRE ONLY						
Term. Lgth.	9"	6"	6"				
Layer Insul.	70# KRAFT						
Wrapper	9L0056A	2L0056A	2L0056A				
TUBE	9L007		IMPREGNATION	VARNISH			
CURE	1 1/2 x 2						

open mtg - angle iron, legs only - no panel



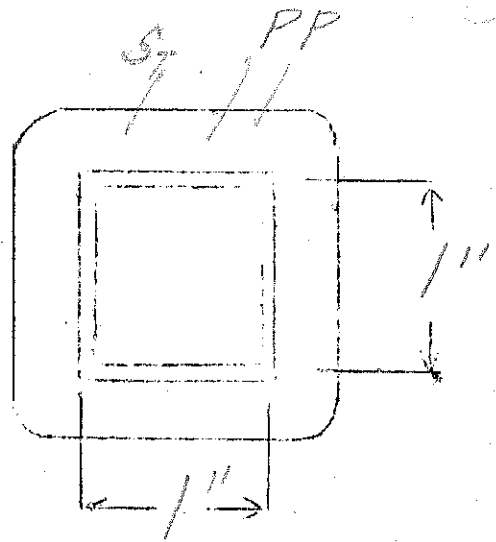
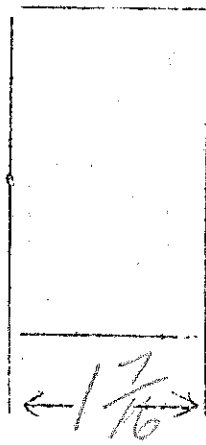
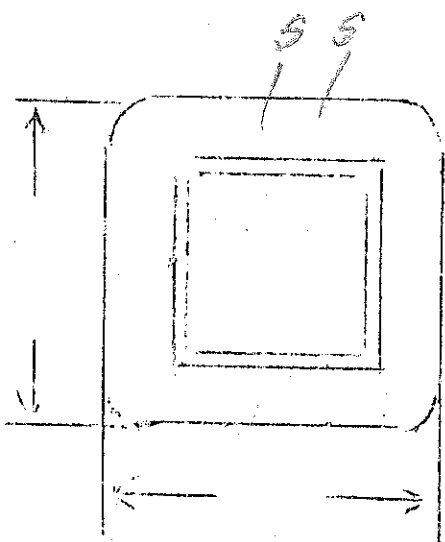


Ep - 200V  
 Es - 650V - 40 ma  
 Ef1 - 5V, 2 amps  
 Ef2 - 6.3V - 2 amps

$\frac{N}{E} - 5.35$

SPEC. NO. 1497

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	3700	206	1080	30	38		
Taps	1850	-	-	-	19		
Wind. Lgth.	1.25	1.25	1.25	-	-		
Wire Size	#36	#36	#29	#21	#20		
T.P.L.	206-18	206	93-12	-	-		
Kind Term.	#20 Braid	silver	#20 Braid	WIPE ONLY			
Term. Lgth.	9"	3"	5"	3"	3"		
Layer Insul.	30#		30#				
Wrapper	2L007VC	2L007VC	2L005GA	2L005GA	2L005GA		
TUBE	2L007		IMPREGNATION		VARNISH		
CURE	1X / NW						



same as 210 except Ep-230

SPEC. NO. 1498

Winding	SEC	SHIELD	PR1	F1	F2		
Turns	3700	206	1250	38	30		
Taps	1850		—	19			
Wind. Lgth.	1.25	1.25	1.25	—	—		
Wire Size	#36	#36	#30	#20	#21		
T.P.L.	206-18	206	105-12				
Kind Term.	#20 PBRmid	PBR	#20 PBRmid	WIRE ONLY			
Term. Lgth.	9" 11	3" 11	9" 11	9" 11	9" 11		
Layer Insul.	30#		30#				
Wrapper	K007VC	K007VC	210056A	210056A	210056A		
TUBE	76007		IMPREGNATION		KARNISH		
CURE	1X INW						

