

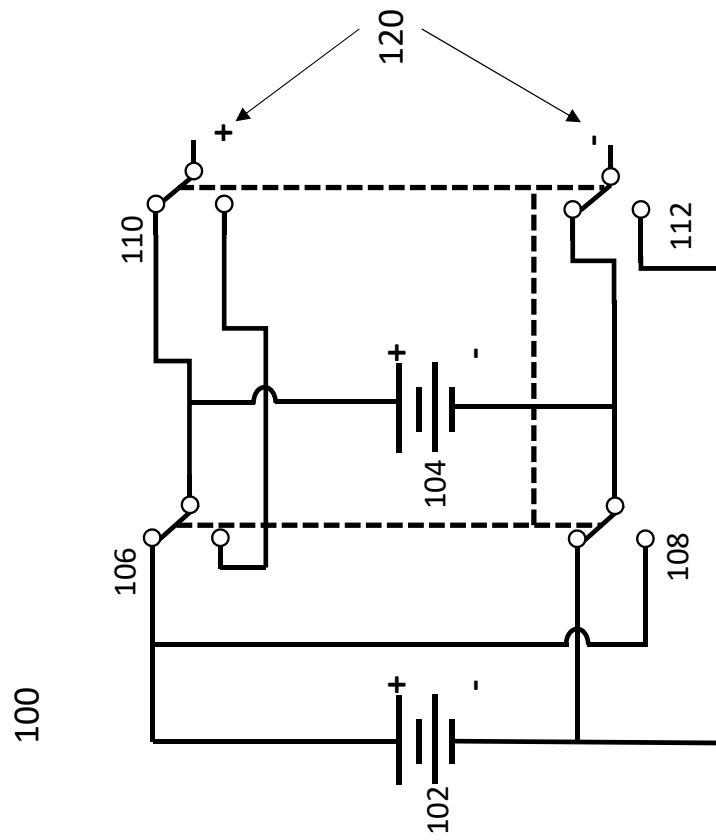


Fig. 1A

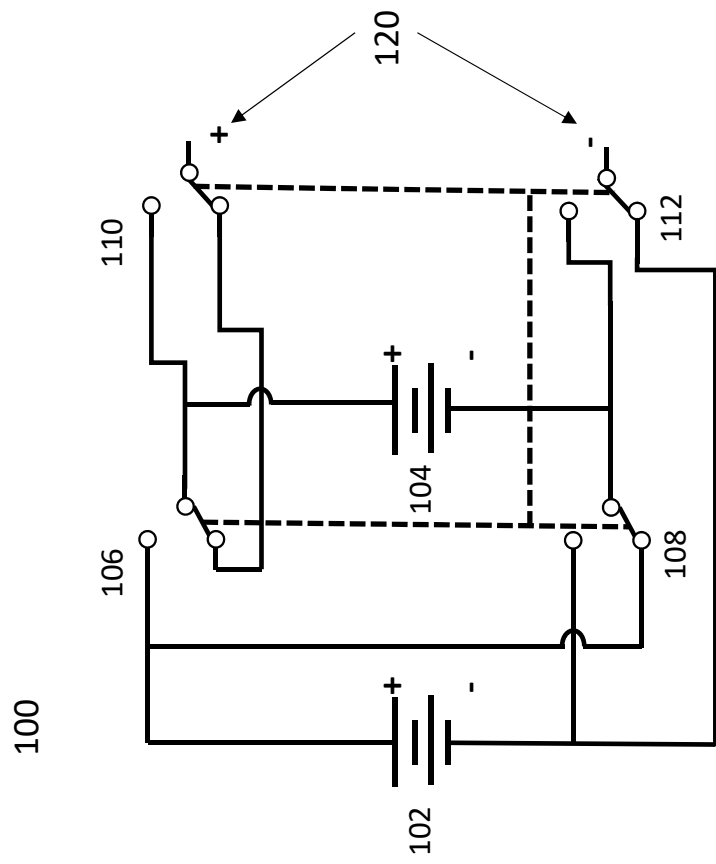


Fig. 1B

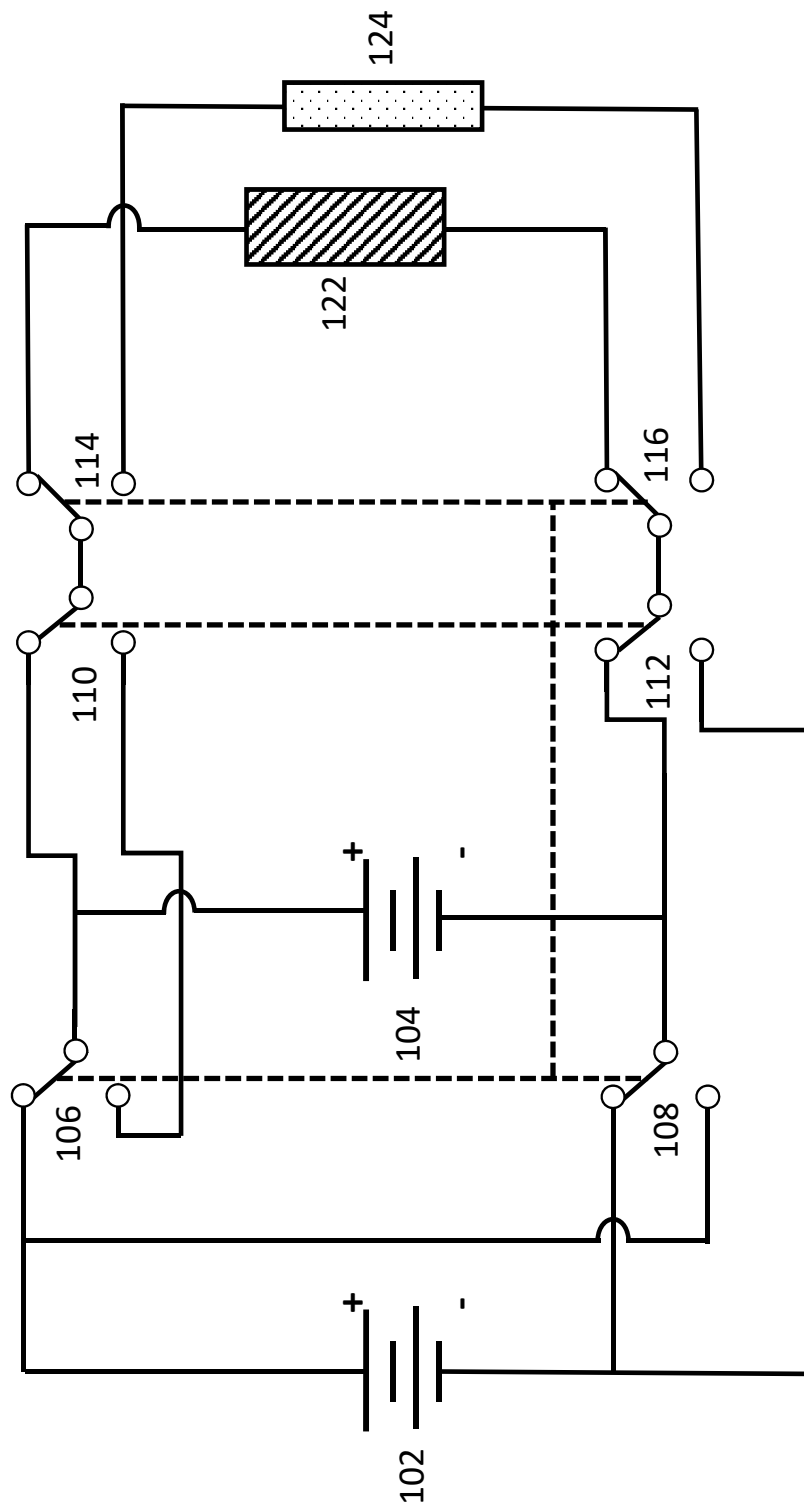
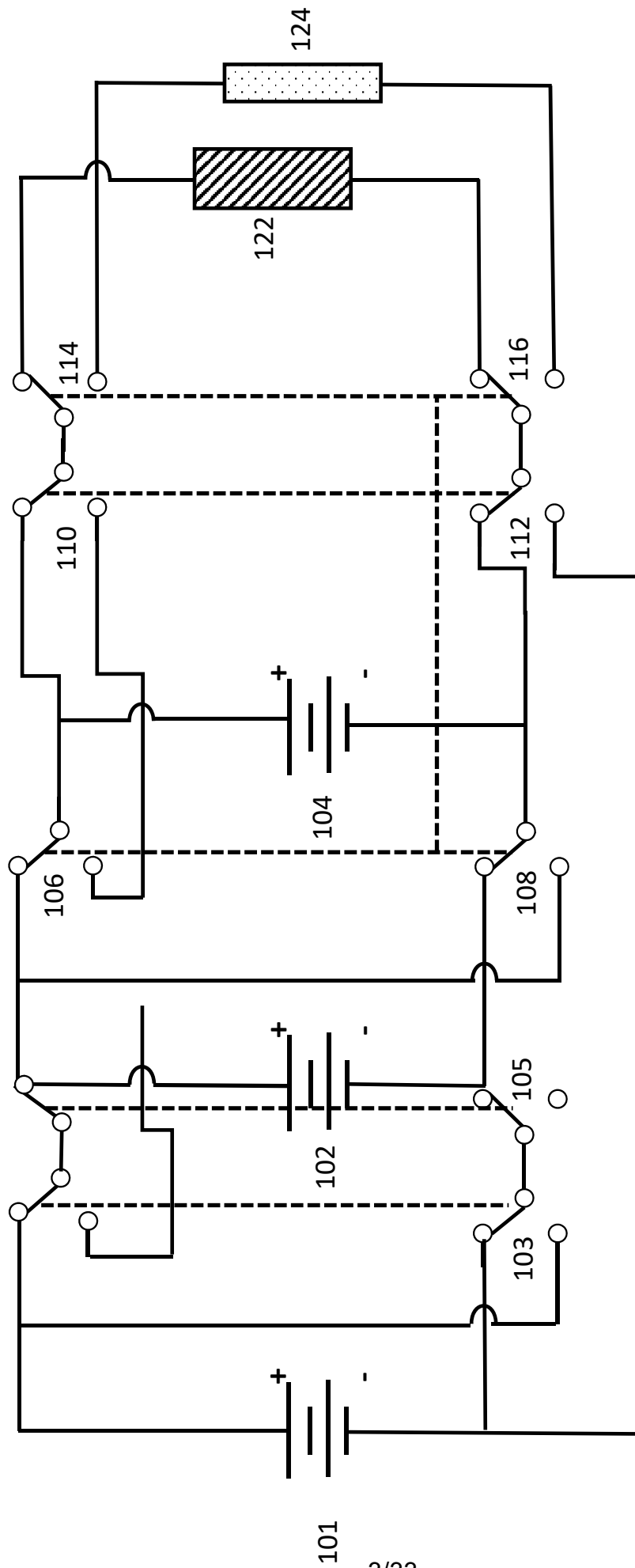


Fig. 2A



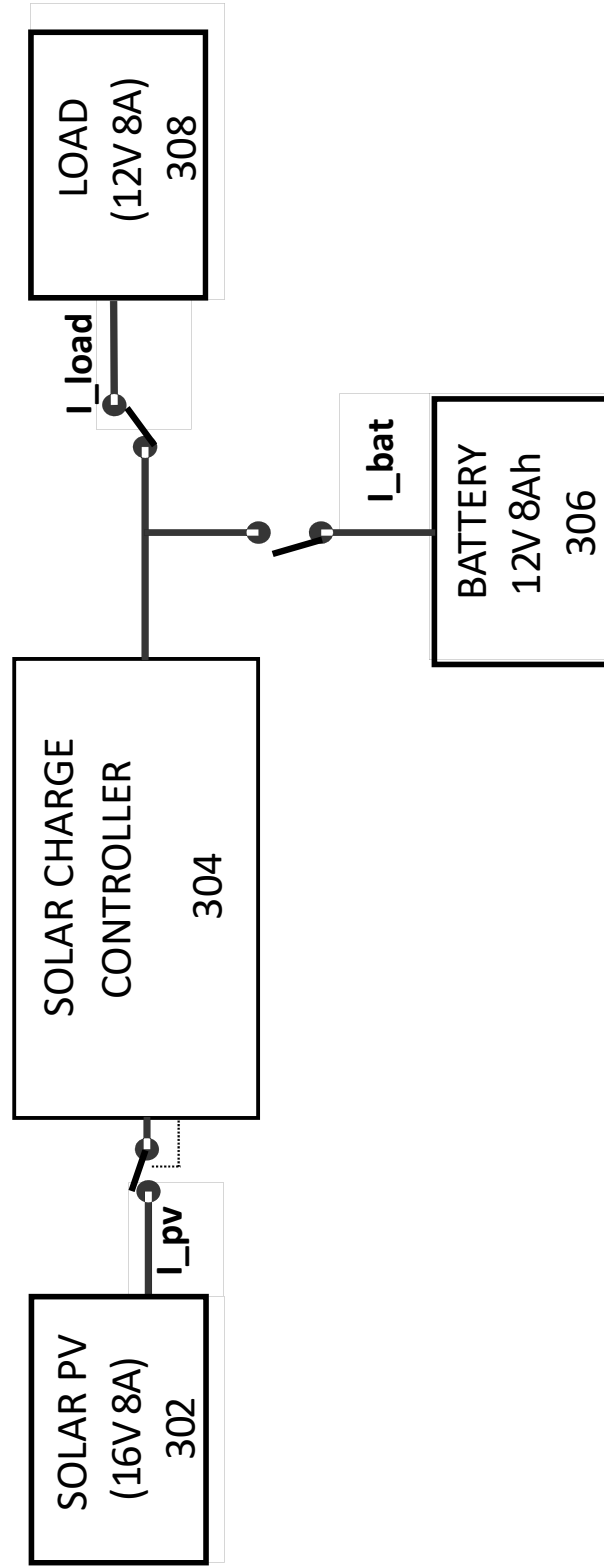


Fig. 3 – PRIOR ART

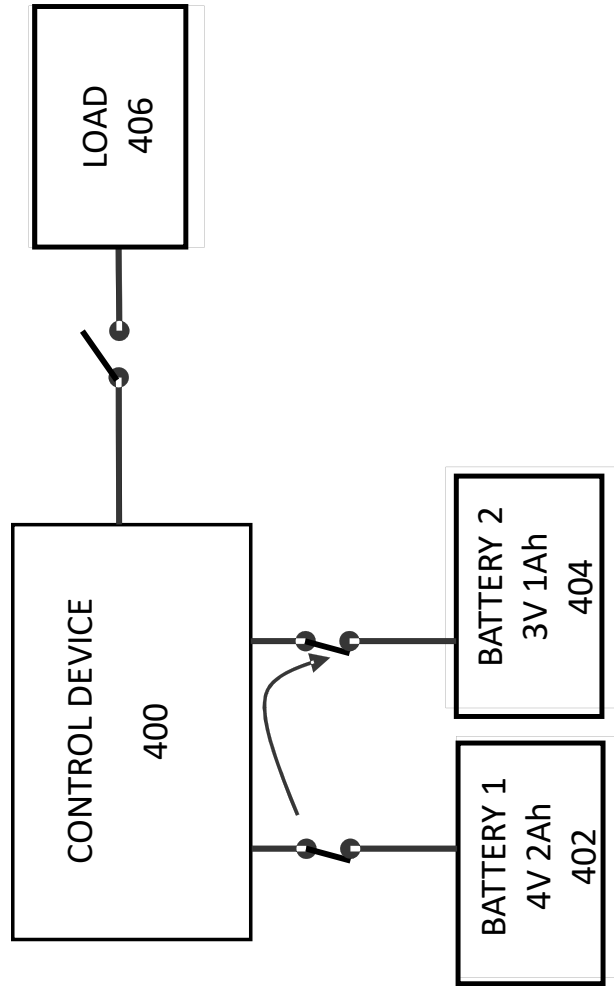


Fig. 4

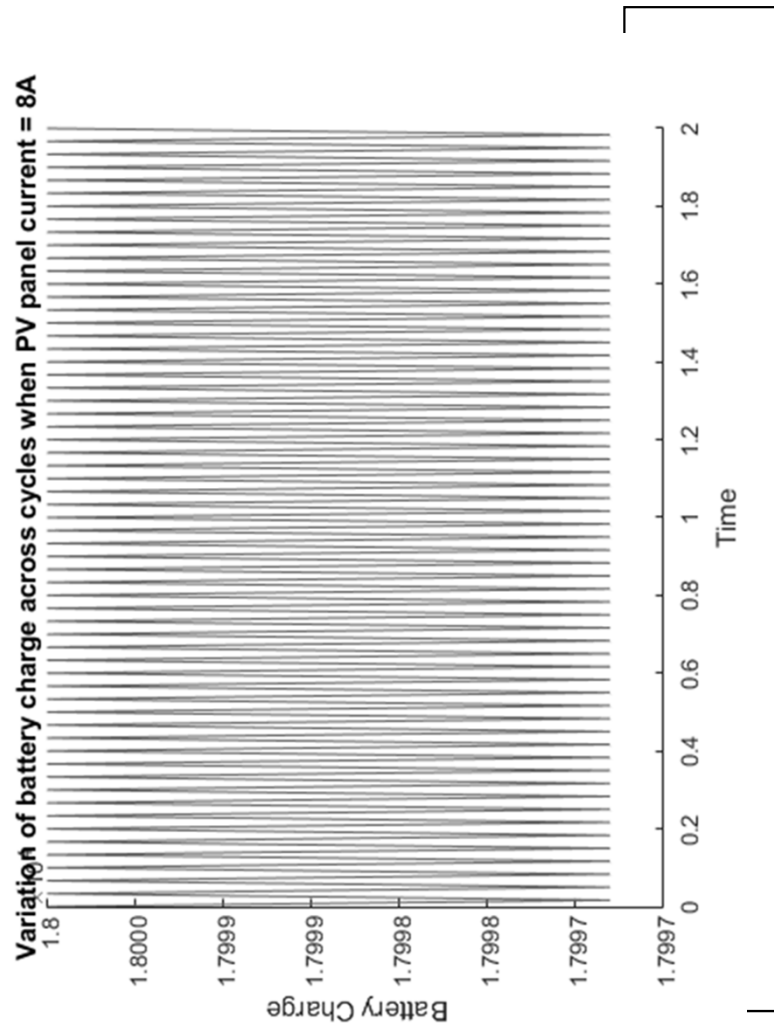


Fig. 5A

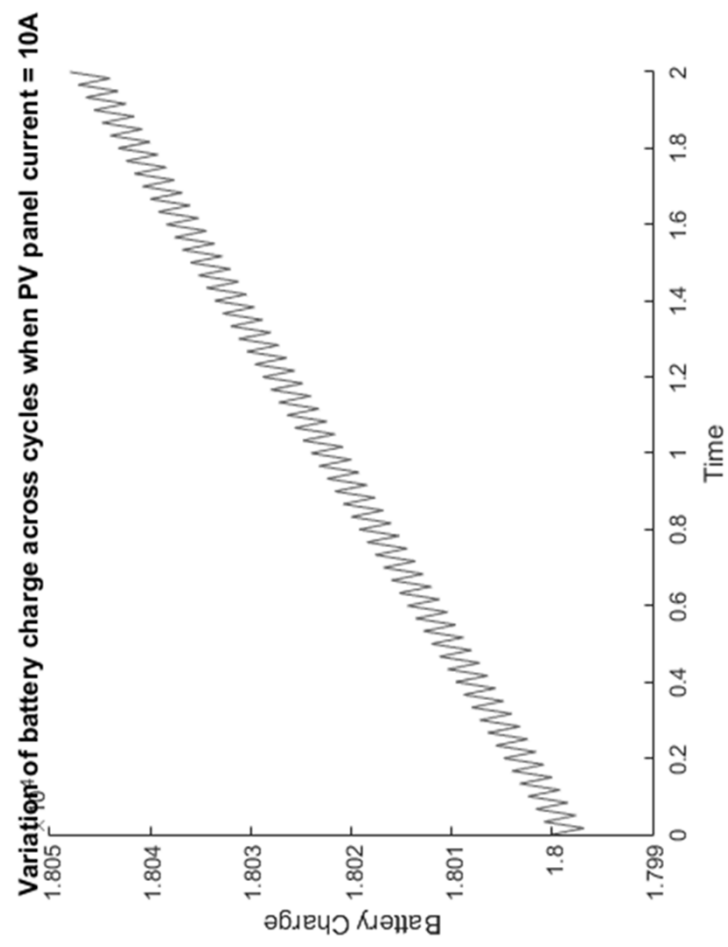


Fig. 5B

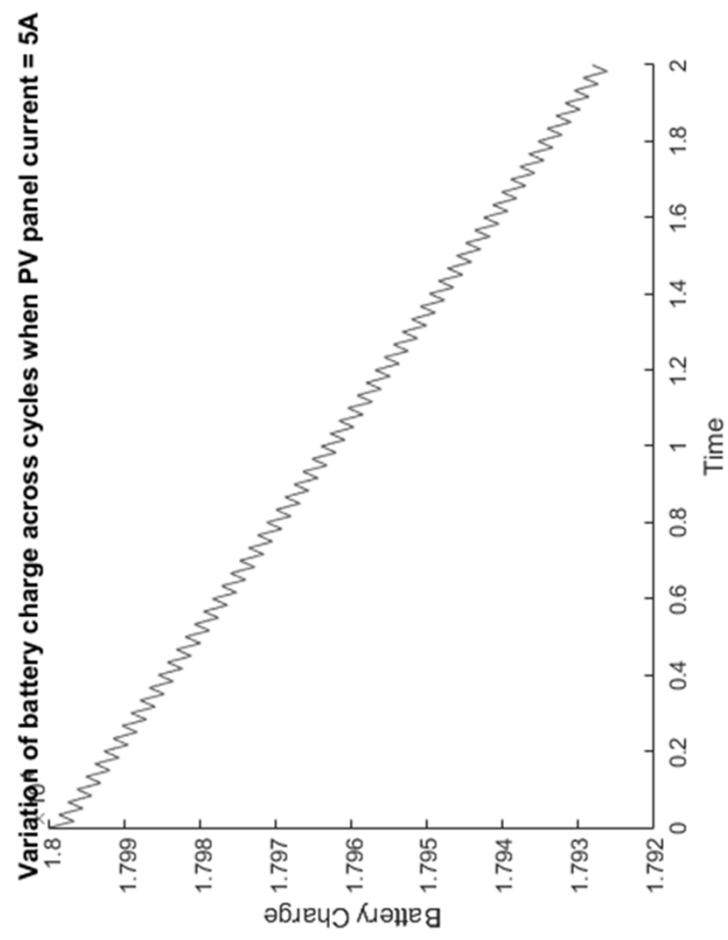


Fig. 5C

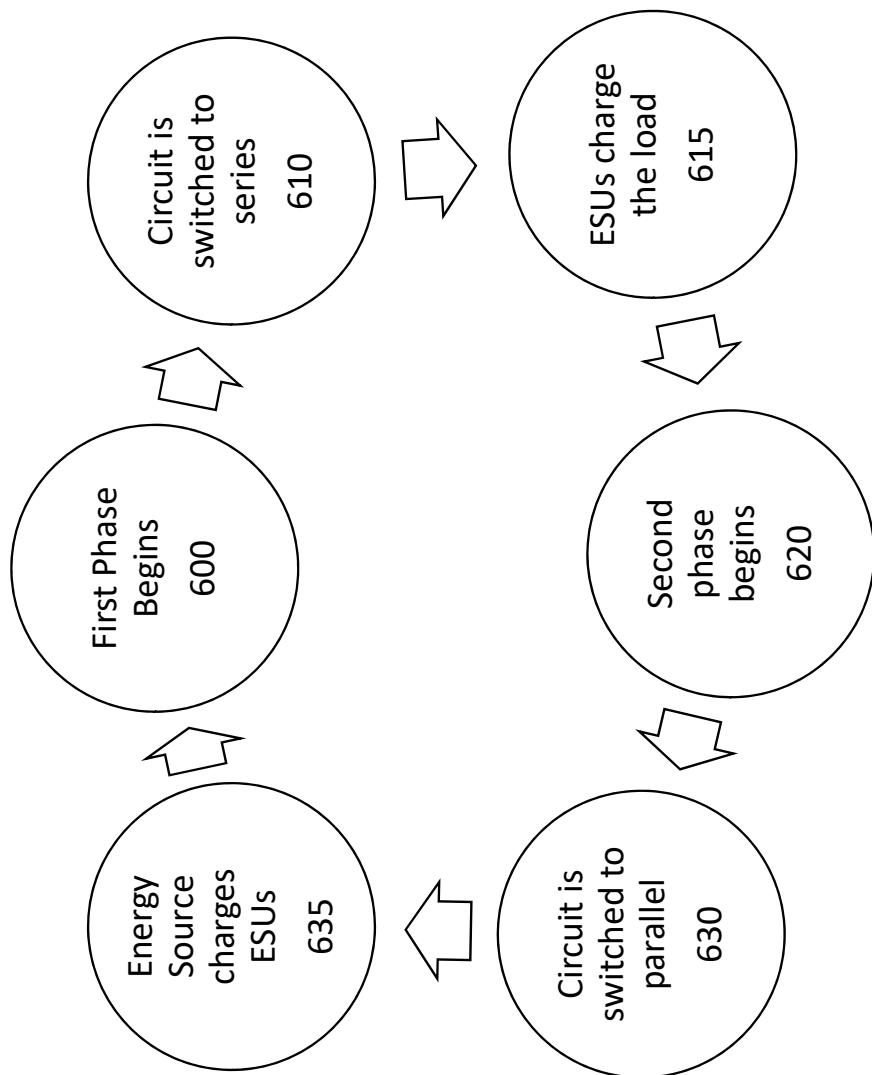


Fig. 6A

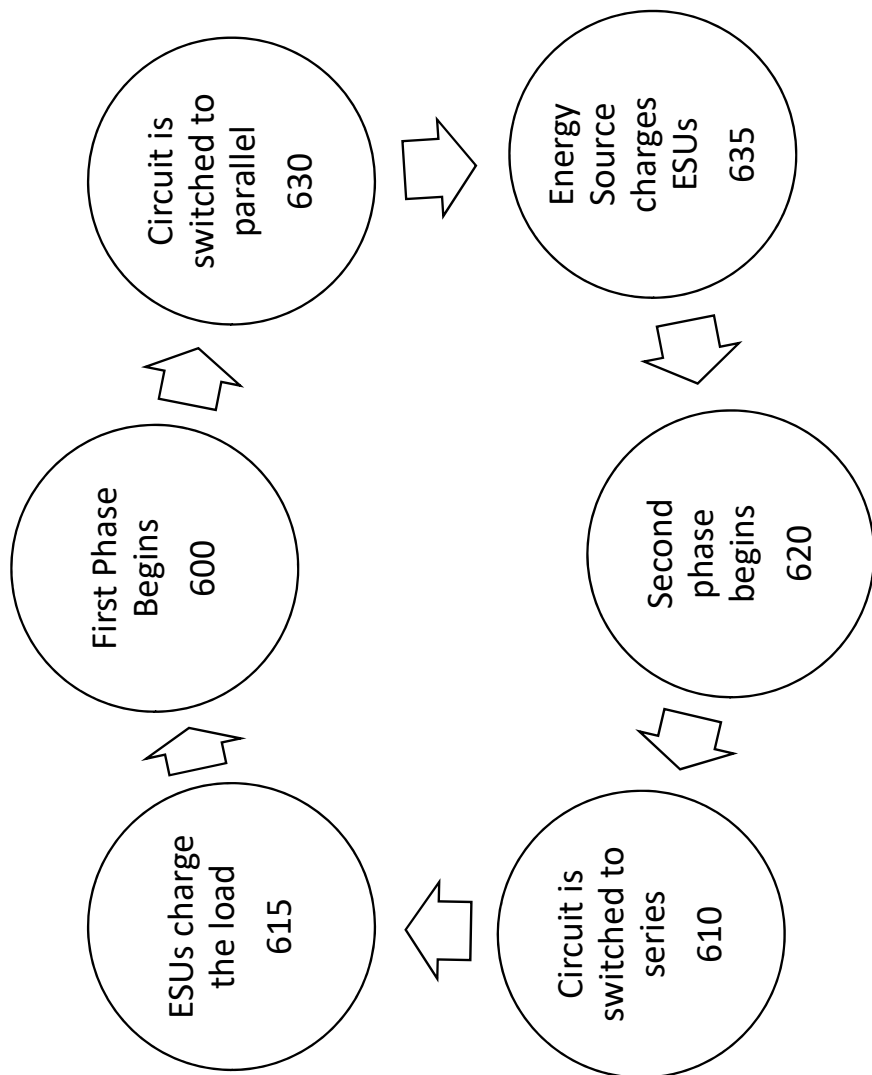


Fig. 6B

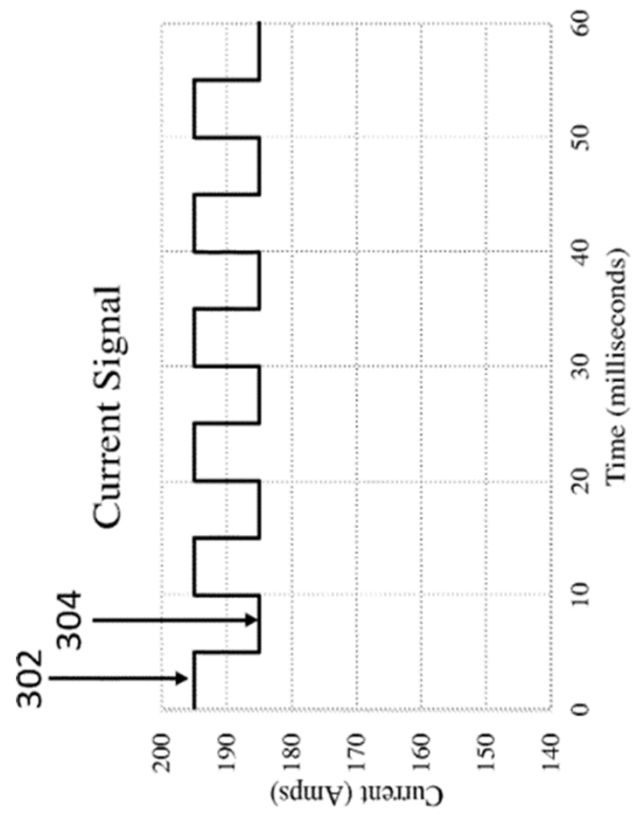


Fig. 7A

Voltage Signal (50% Duty Cycle)

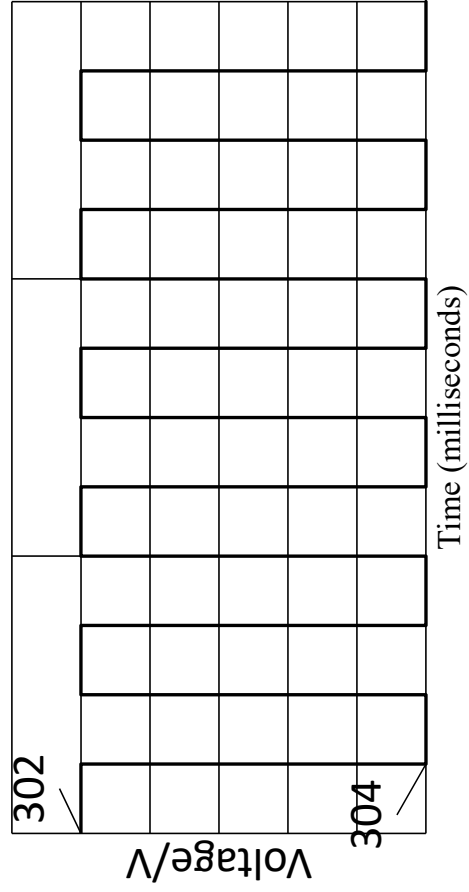


Fig. 7B

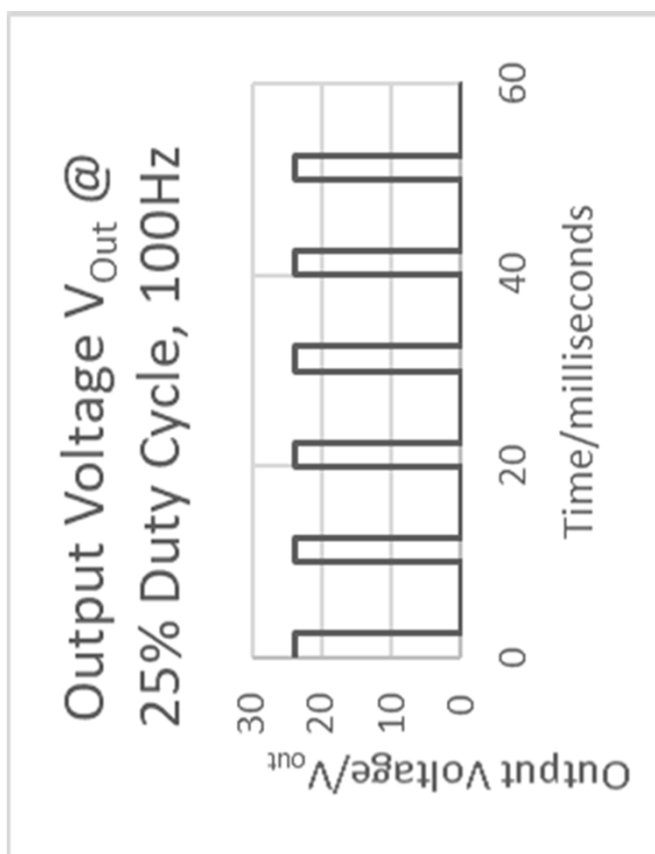


Fig. 7C

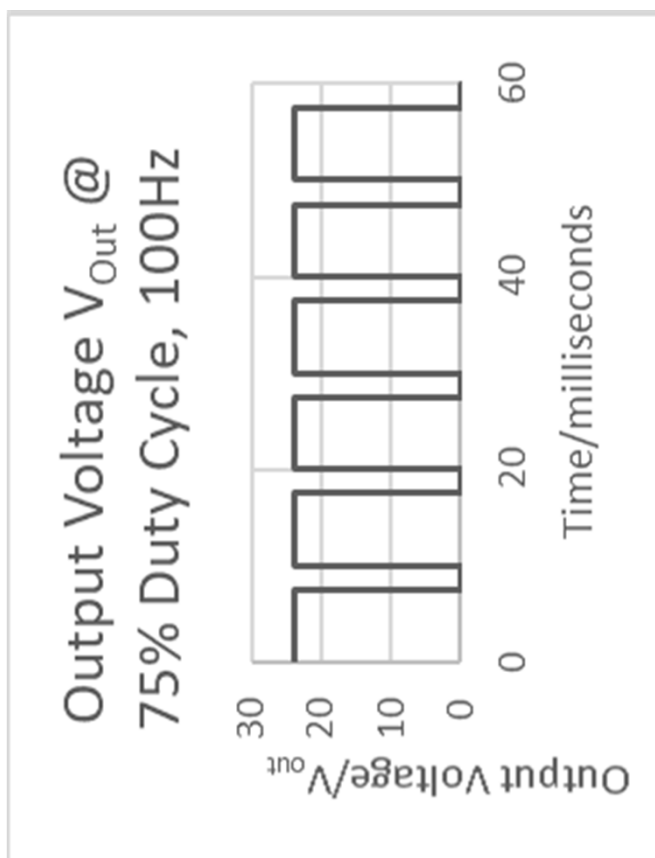


Fig. 7D

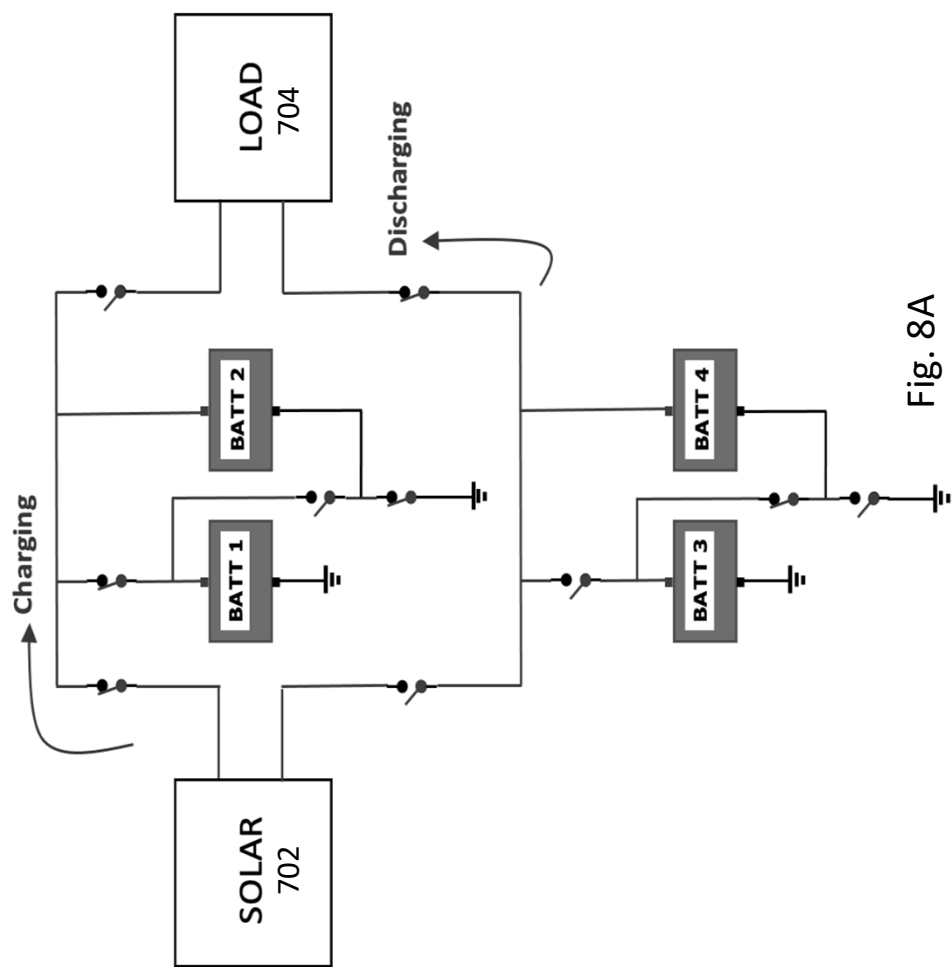


Fig. 8A

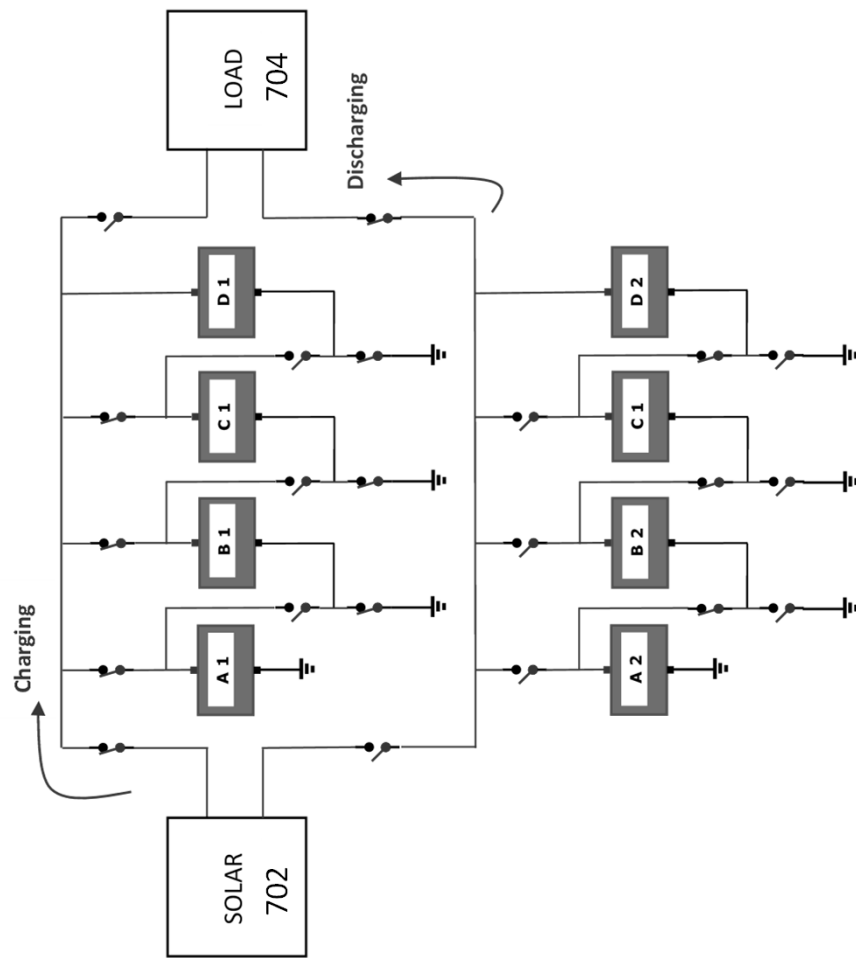


Fig. 8B

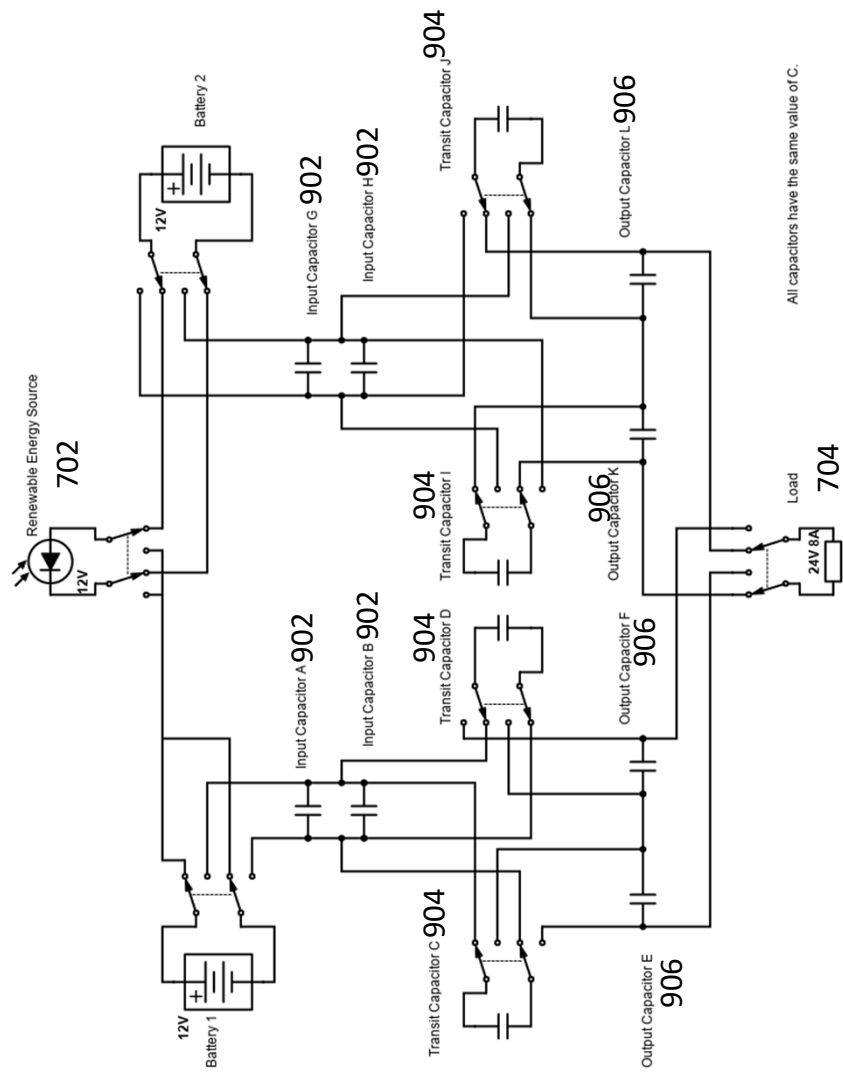


Fig. 9

Case 2: Renewable Energy Source Current = 8 A; Load Current = 8 A

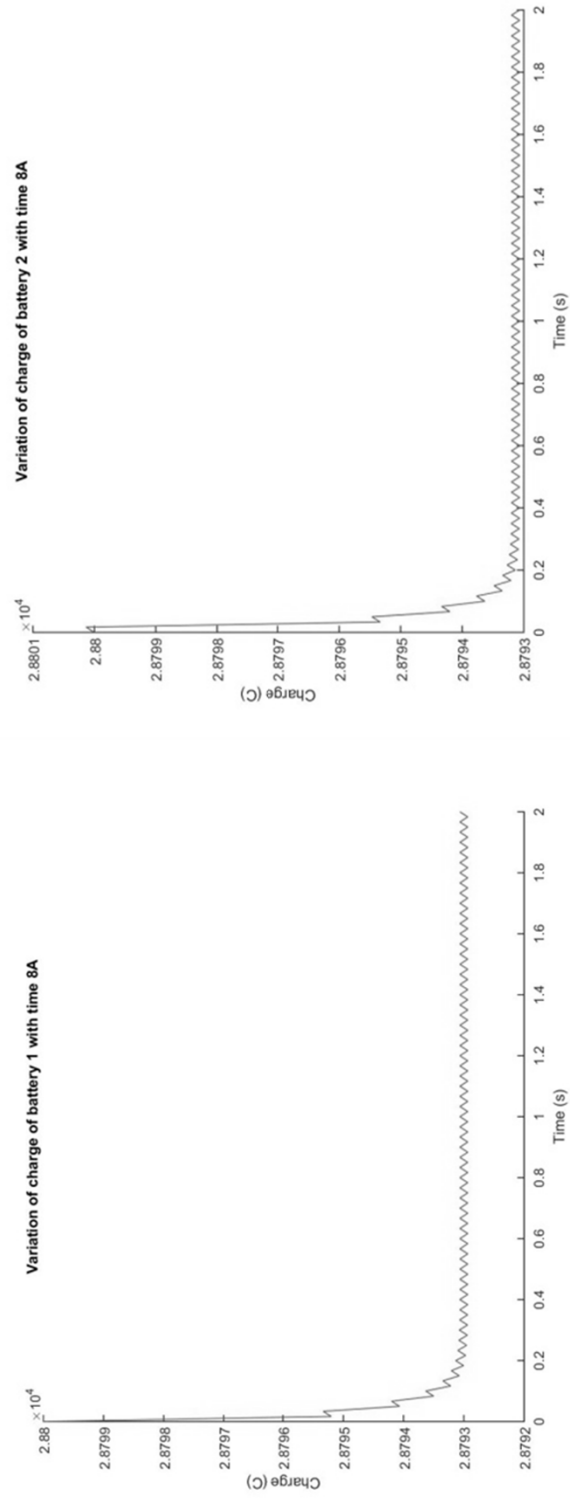


Fig. 9A

Case 1: Renewable Energy Source Current = 5 A; Load Current = 8 A

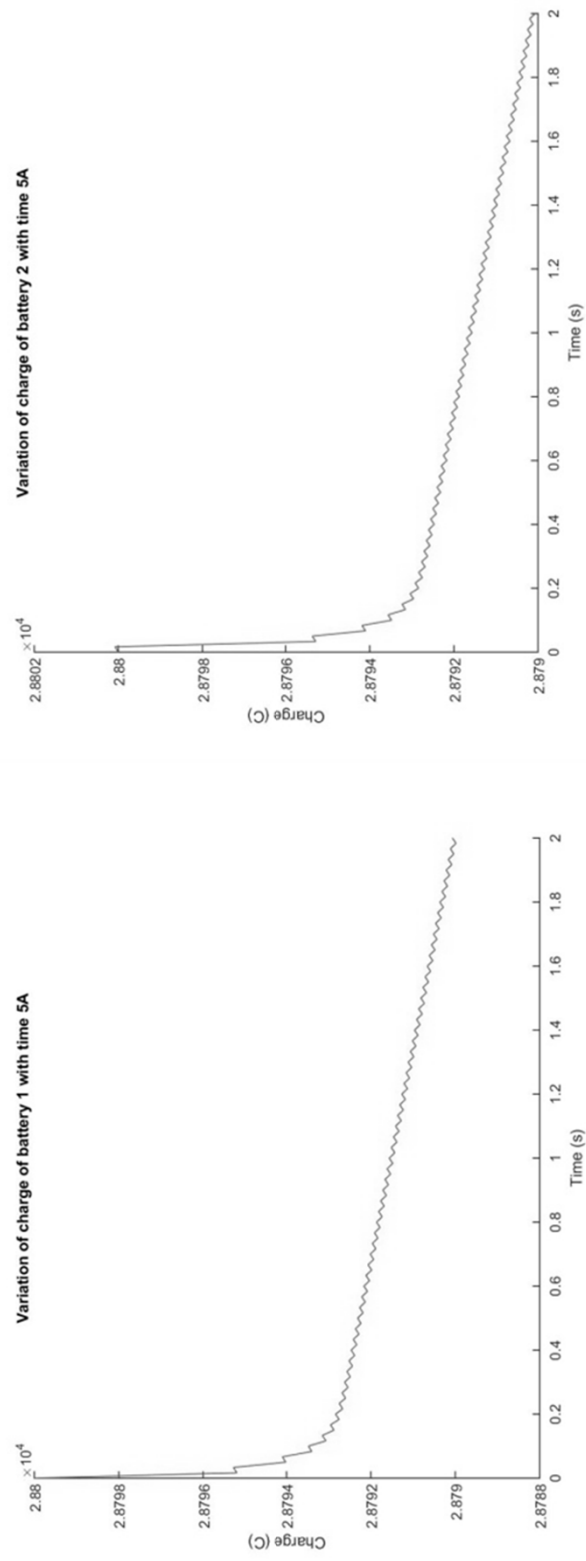


Fig. 9B

Case 3: Renewable Energy Source Current = 10 A; Load Current = 8A

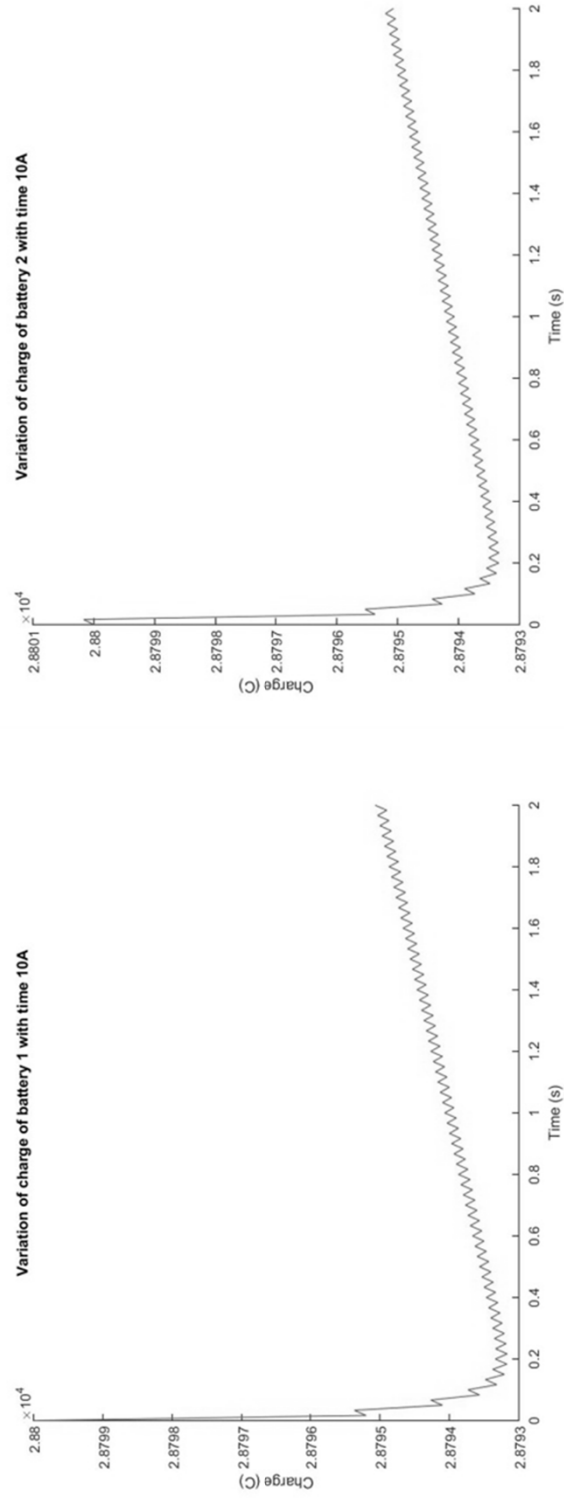


Fig. 9C

Variation of Charge of Input Capacitors A, B, G and H with time

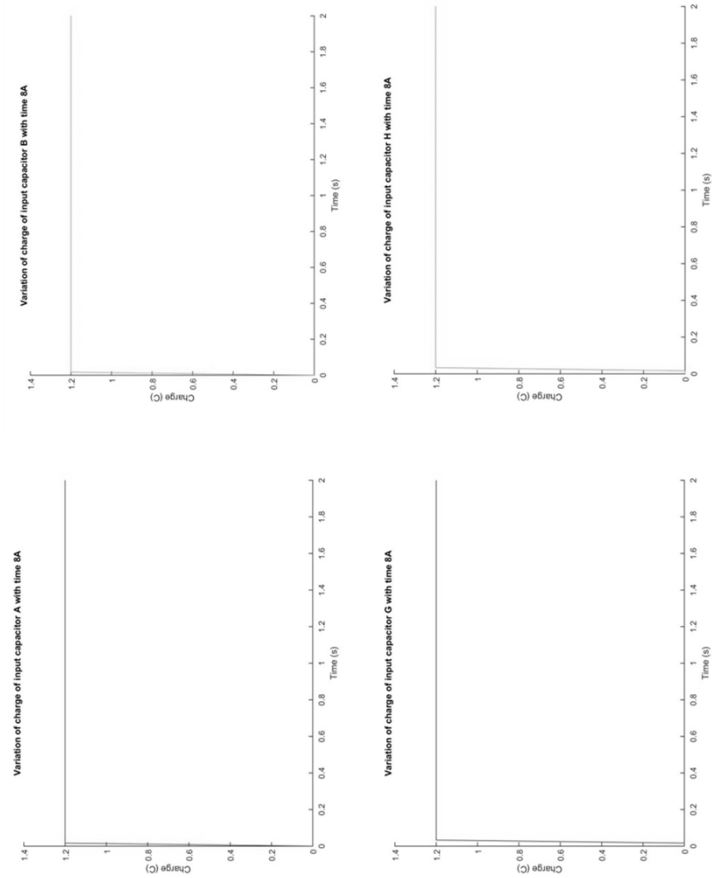


Fig. 9D

Variation of Charge of Transit Capacitors C, D, I and J with time

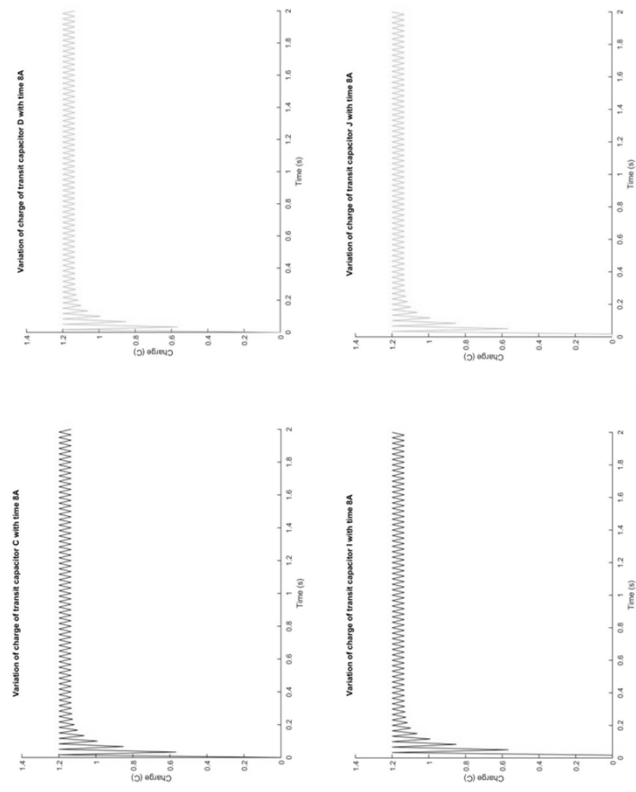


Fig. 9E

Variation of Charge of Output Capacitors E, F, K and L with time

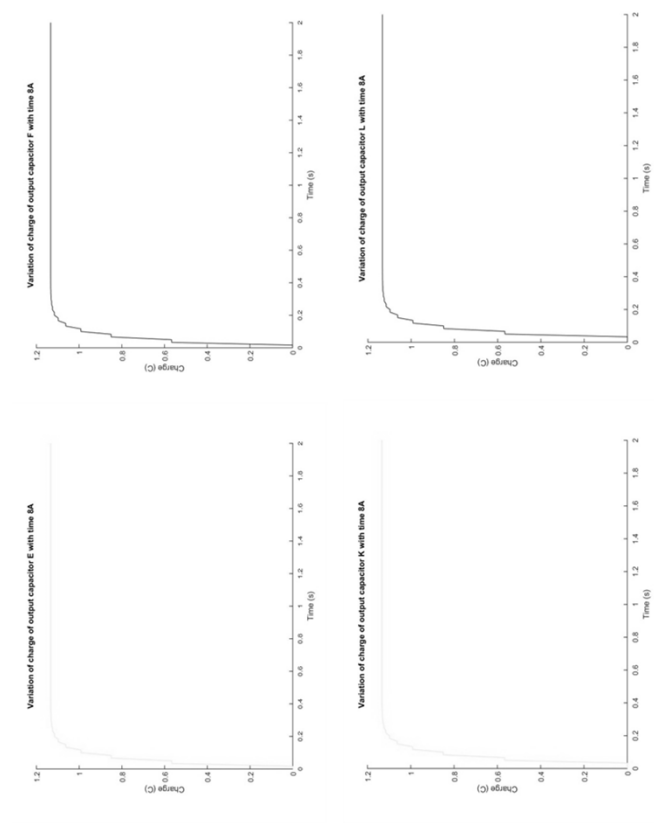


Fig. 9F

7 Levels	Time [ms Step	#Seri	Level Number							H Bridge Direction	Voltage	Series/Parallel Sw							Supply/Load/Off Sw							Inverter Sw			
			1	2	3	4	5	6	7			2A	3A	4A	5A	6A	7A	1C	2C	3C	4C	5C	6C	7C	H1	H2	H3	H4	
0	0	0							Forward	0P	P	P	P	P	P	P	S	S	S	S	S	S	S	1	0	0	1		
0.45629	1	1							Forward	24P	P	P	P	P	P	P	L	S	S	S	S	S	S	1	0	0	1		
0.92231	2	2							Forward	48S	P	P	P	P	P	P	O	L	S	S	S	S	S	1	0	0	1		
1.4098	3	3							Forward	72S	S	P	P	P	P	P	O	O	L	S	S	S	S	1	0	0	1		
1.9361	4	4							Forward	96S	S	S	P	P	P	P	O	O	O	L	S	S	S	1	0	0	1		
2.5325	5	5							Forward	120S	S	S	S	S	P	P	O	O	O	L	S	S	S	1	0	0	1		
3.2776	6	6							Forward	144S	S	S	S	S	S	P	O	O	O	O	L	S	S	1	0	0	1		
5	7	7							Forward	168S	S	S	S	S	S	S	O	O	O	O	L	S	S	1	0	0	1		
6.7224	8	6							Forward	144P	S	S	S	S	S	S	S	O	O	O	O	L	S	1	0	0	1		
7.4675	9	5							Forward	120P	P	S	S	S	S	S	S	S	O	O	O	L	S	1	0	0	1		
8.0639	10	4							Forward	96P	P	P	S	S	S	S	S	S	O	O	O	L	S	1	0	0	1		
8.5902	11	3							Forward	72P	P	P	P	S	S	S	S	S	S	O	L	S	1	0	0	1			
9.0777	12	2							Forward	48P	P	P	P	P	S	S	S	S	S	O	L	S	1	0	0	1			
9.5437	13	1							Forward	24P	P	P	P	P	P	P	S	S	S	S	S	L	1	0	0	1			
10	14	0							Reverse	0P	P	P	P	P	P	P	S	S	S	S	S	S	0	1	1	0			
10.4563	15	1							Reverse	-24P	P	P	P	P	P	P	L	S	S	S	S	S	0	1	1	0			
10.9223	16	2							Reverse	-48S	P	P	P	P	P	P	O	L	S	S	S	S	0	1	1	0			
11.4098	17	3							Reverse	-72S	S	P	P	P	P	P	O	O	L	S	S	S	0	1	1	0			
11.9361	18	4							Reverse	-96S	S	S	P	P	P	P	O	O	L	S	S	S	0	1	1	0			
12.5325	19	5							Reverse	-120S	S	S	S	S	P	P	O	O	O	L	S	S	0	1	1	0			
13.2776	20	6							Reverse	-144S	S	S	S	S	S	P	O	O	O	O	L	S	0	1	1	0			
15	21	7							Reverse	-168S	S	S	S	S	S	S	O	O	O	O	L	S	0	1	1	0			
16.7224	22	6							Reverse	-144P	S	S	S	S	S	S	S	O	O	O	O	L	0	1	1	0			
17.4675	23	5							Reverse	-120P	P	S	S	S	S	S	S	S	O	O	O	L	0	1	1	0			
18.0639	24	4							Reverse	-96P	P	P	S	S	S	S	S	S	O	O	O	L	0	1	1	0			
18.5902	25	3							Reverse	-72P	P	P	P	S	S	S	S	S	S	O	L	S	0	1	1	0			
19.0777	26	2							Reverse	-48P	P	P	P	P	S	S	S	S	S	S	O	L	0	1	1	0			
19.5437	27	1							Reverse	-24P	P	P	P	P	P	P	S	S	S	S	S	L	0	1	1	0			

Fig. 10A

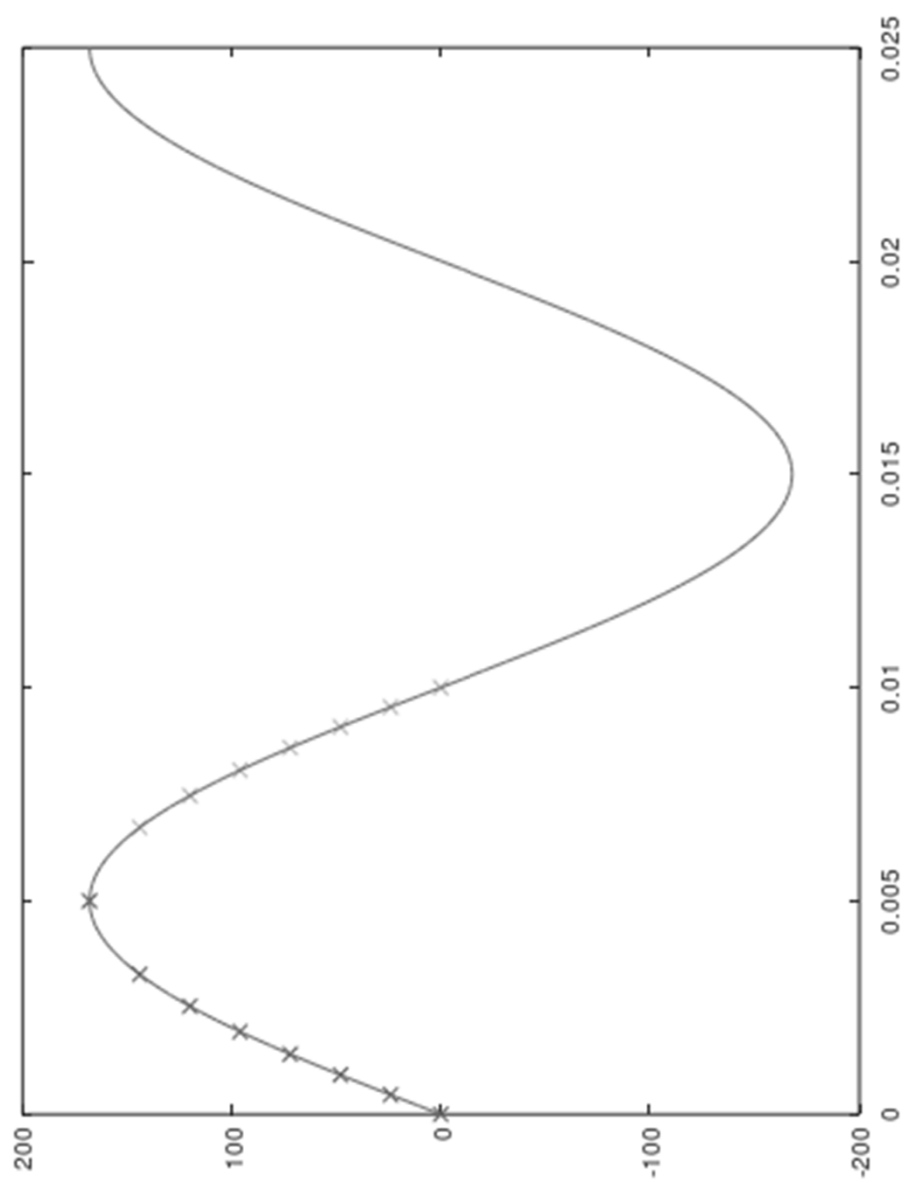


Fig. 10B

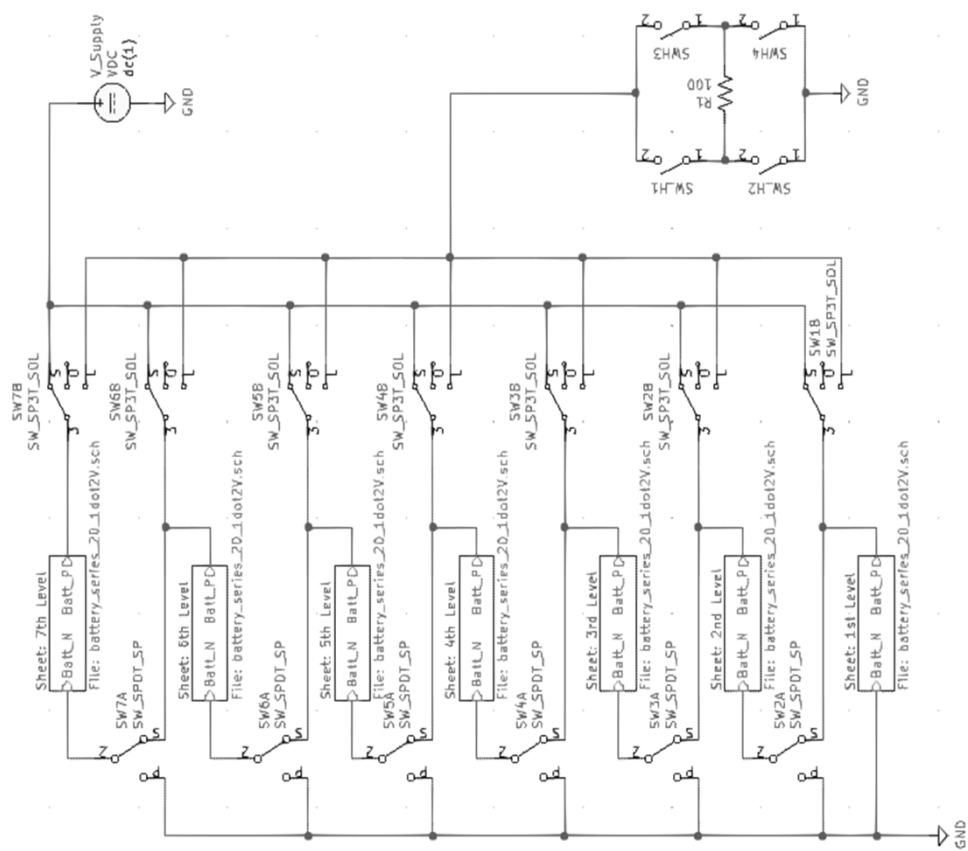


Fig. 10C

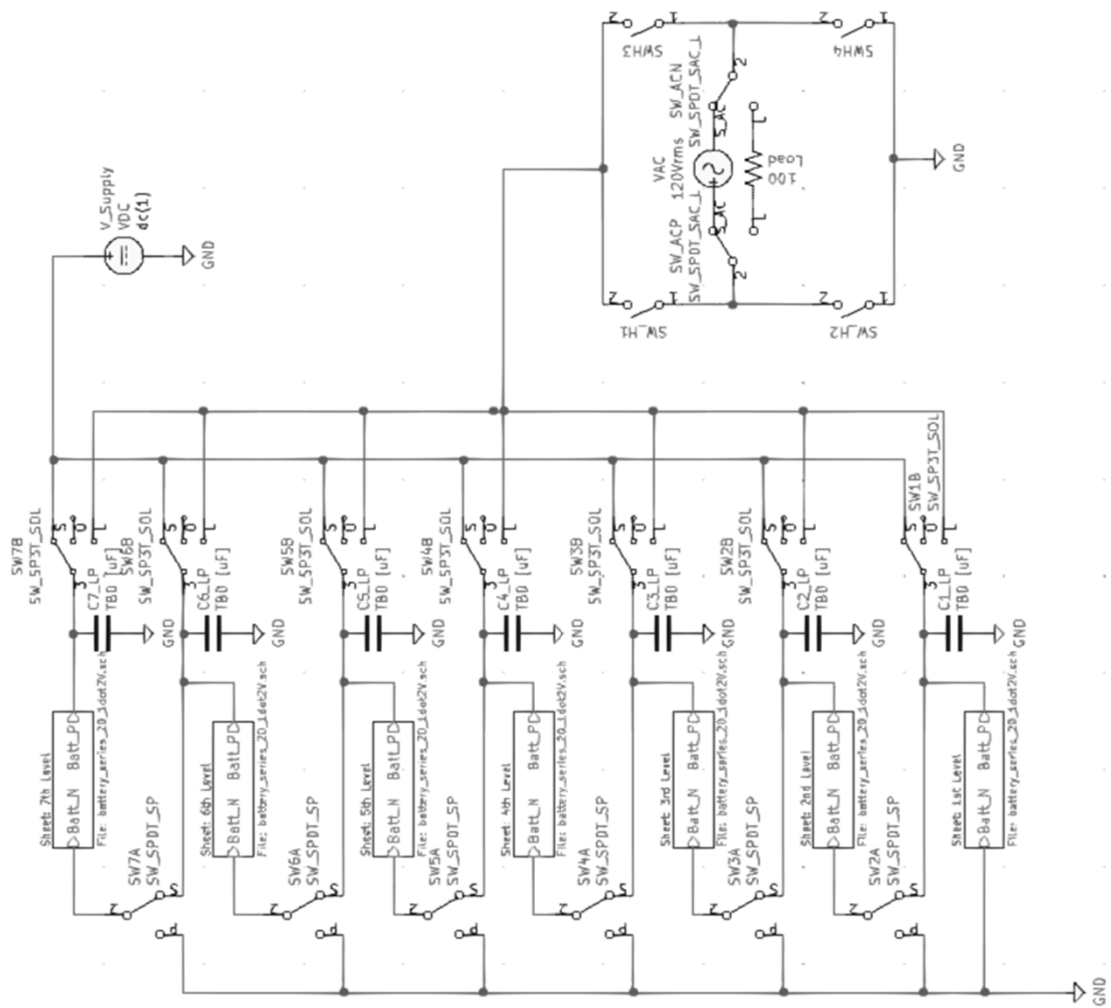


Fig. 10D

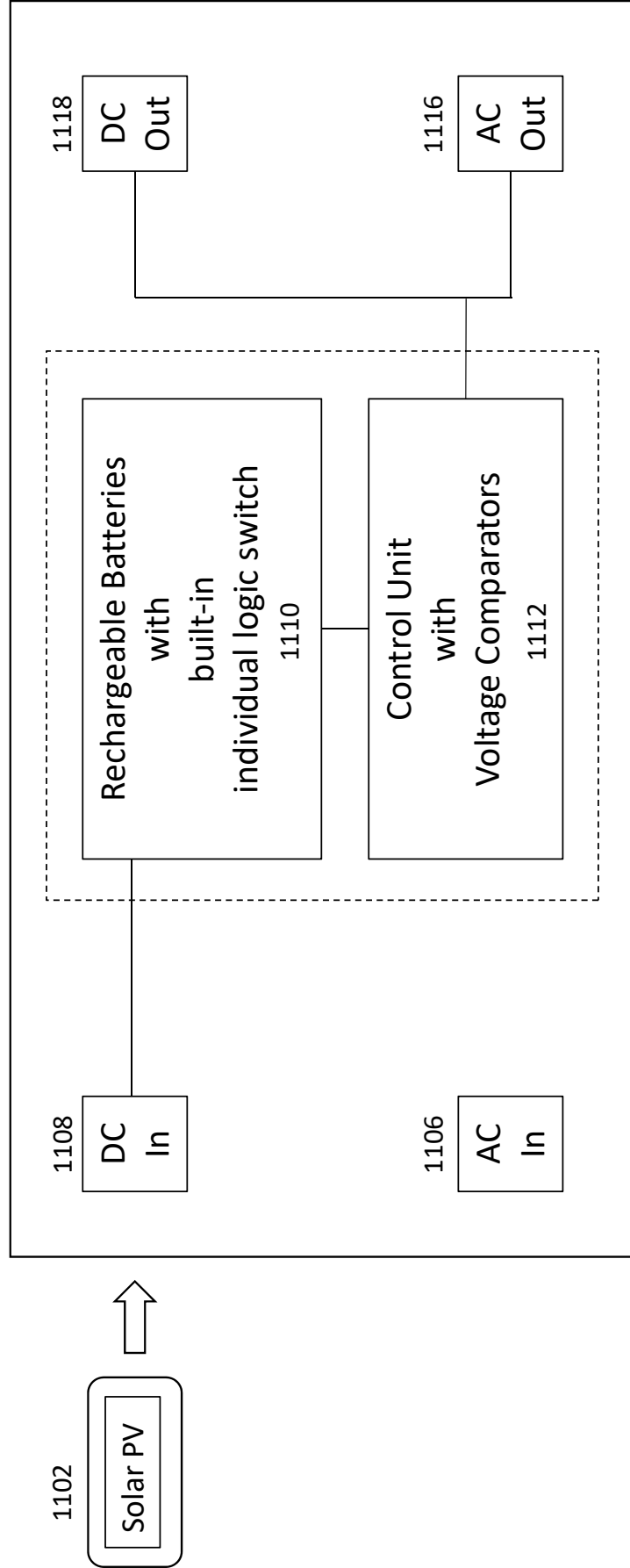


Fig. 11A

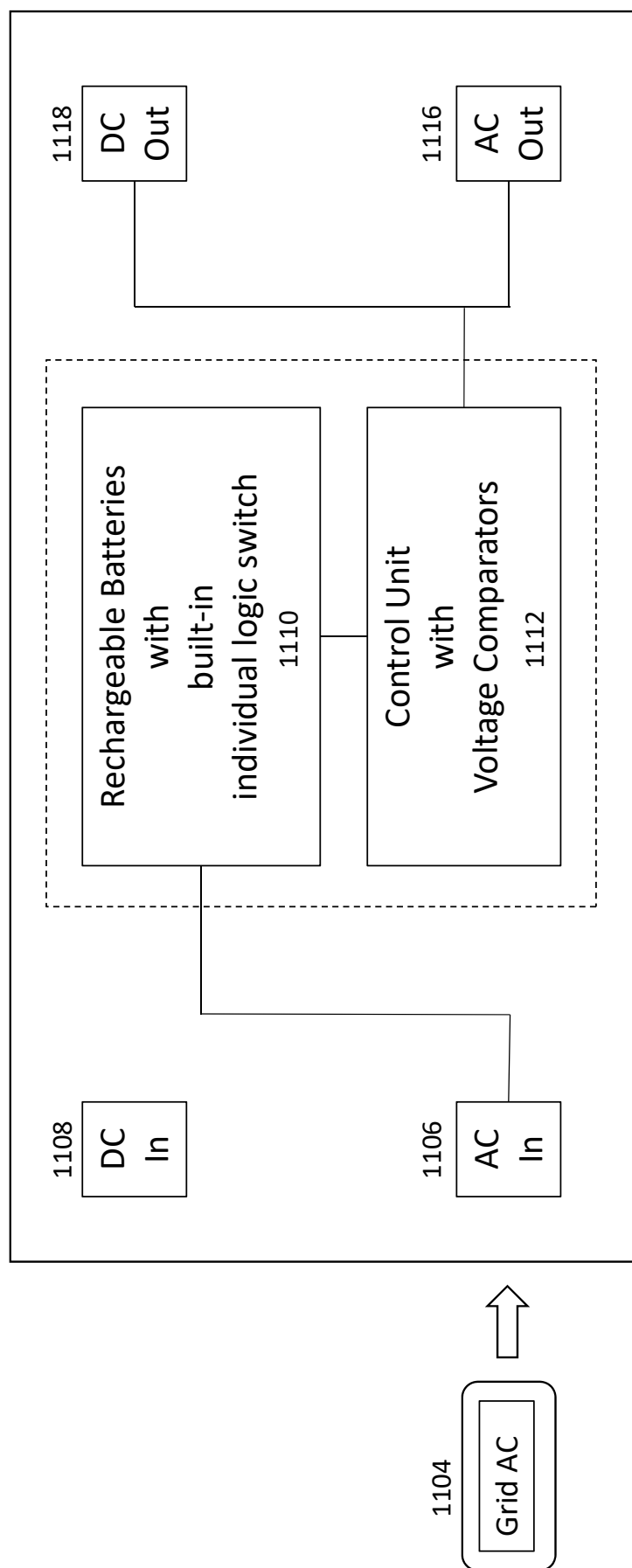


Fig. 11B



Fig. 12B



Fig. 12A

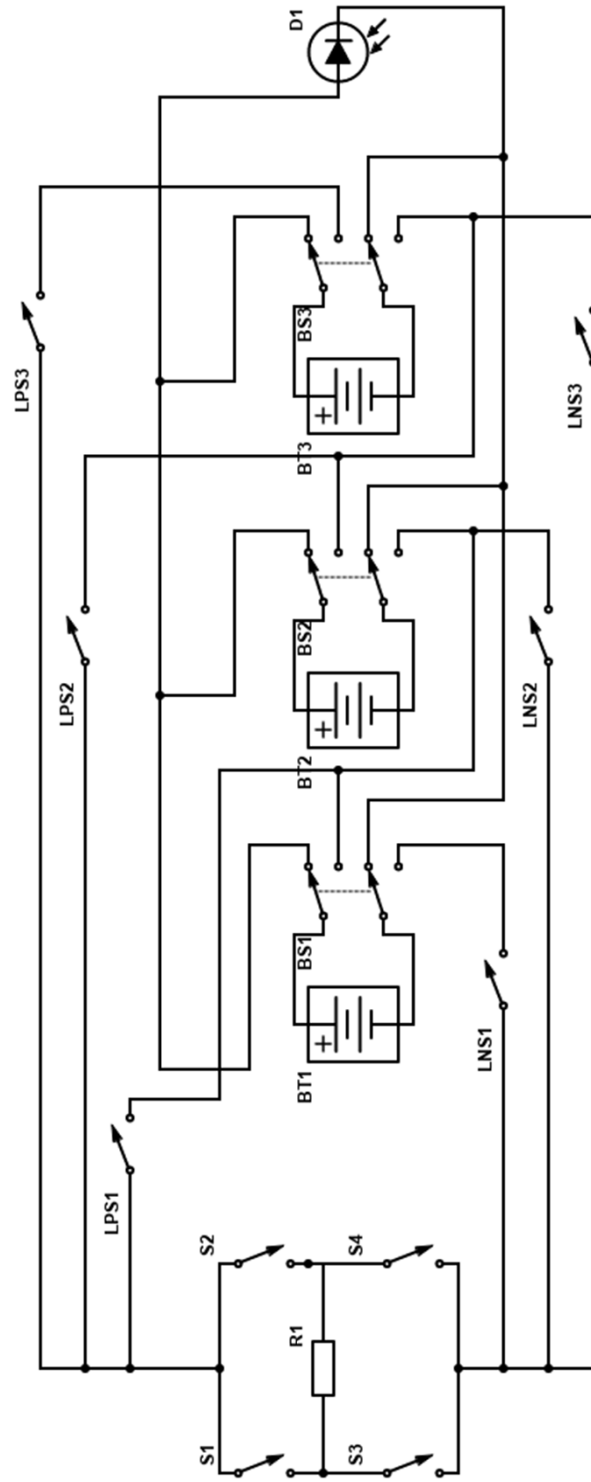


Fig. 13

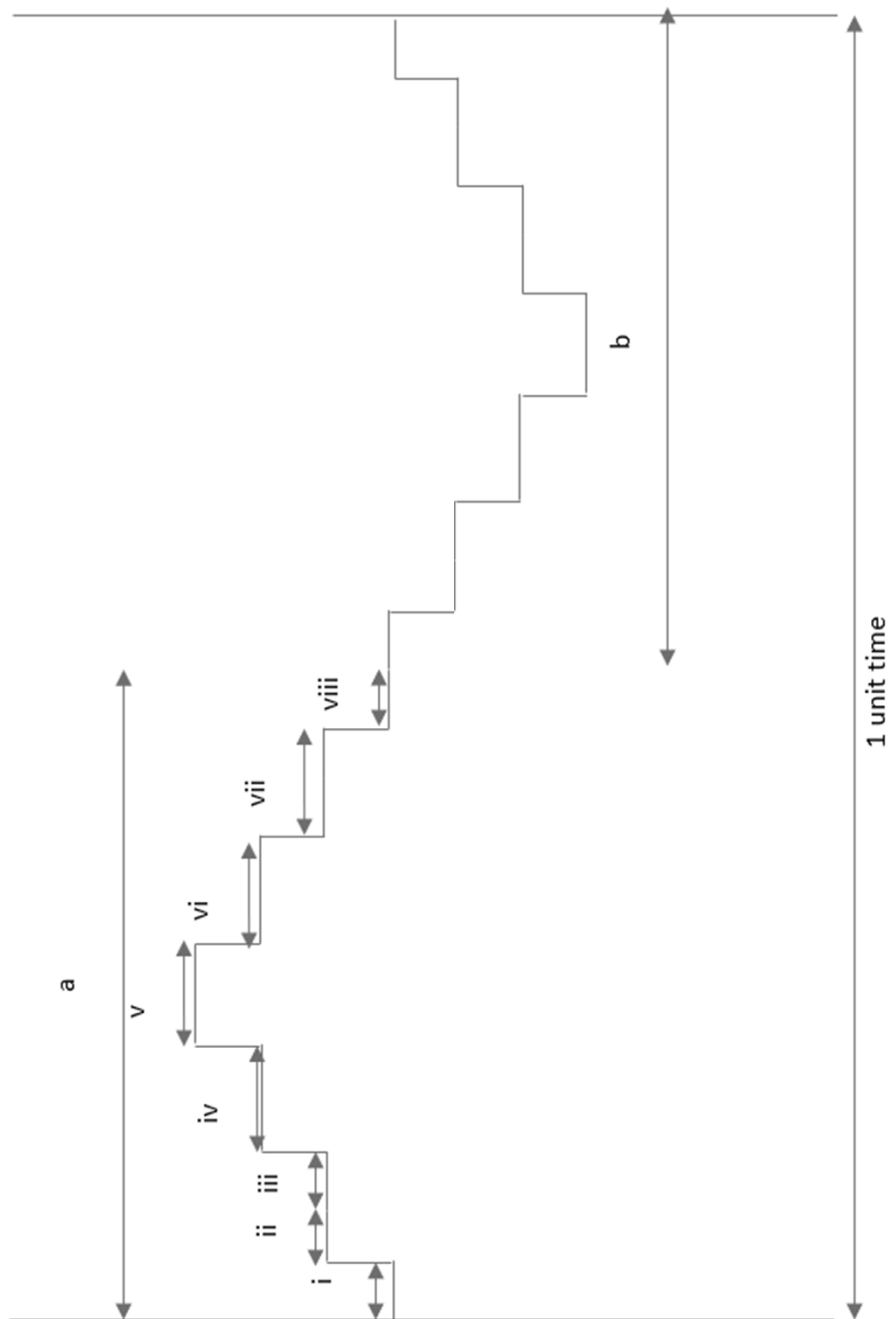


Fig. 14

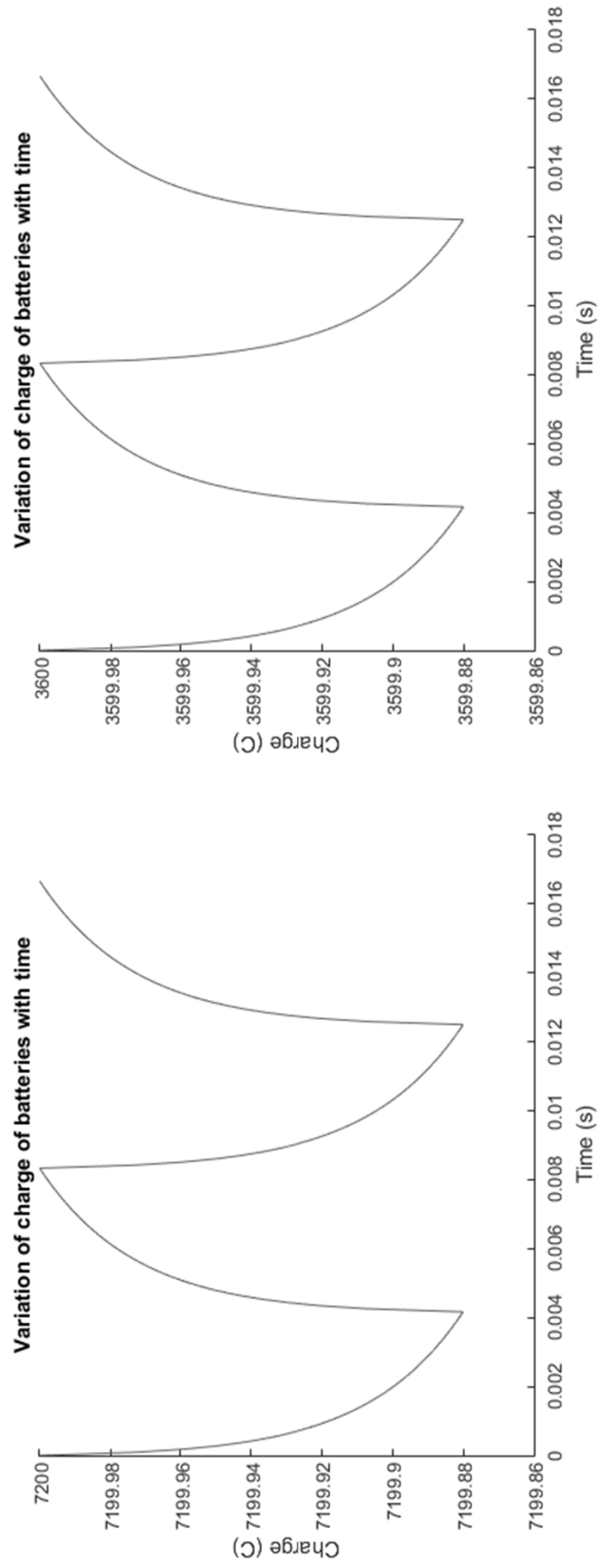


Fig. 15A

Fig. 15B

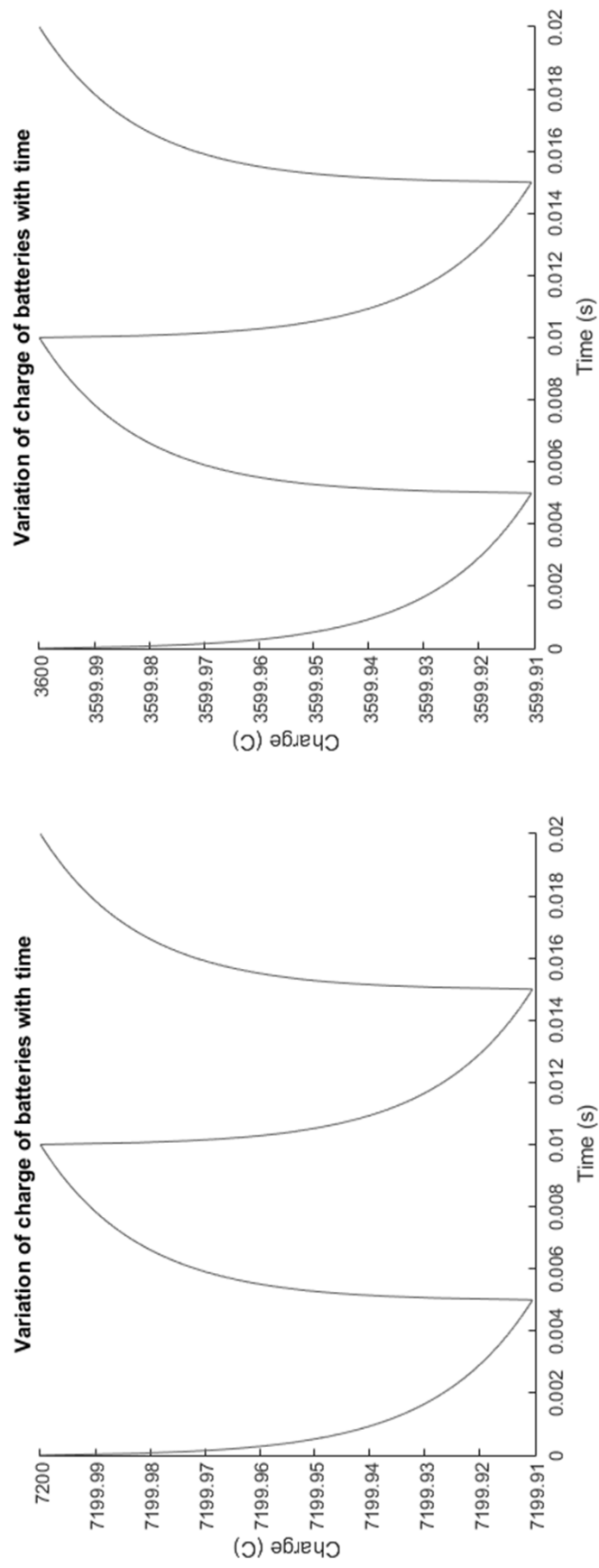


Fig. 15C

Fig. 15D

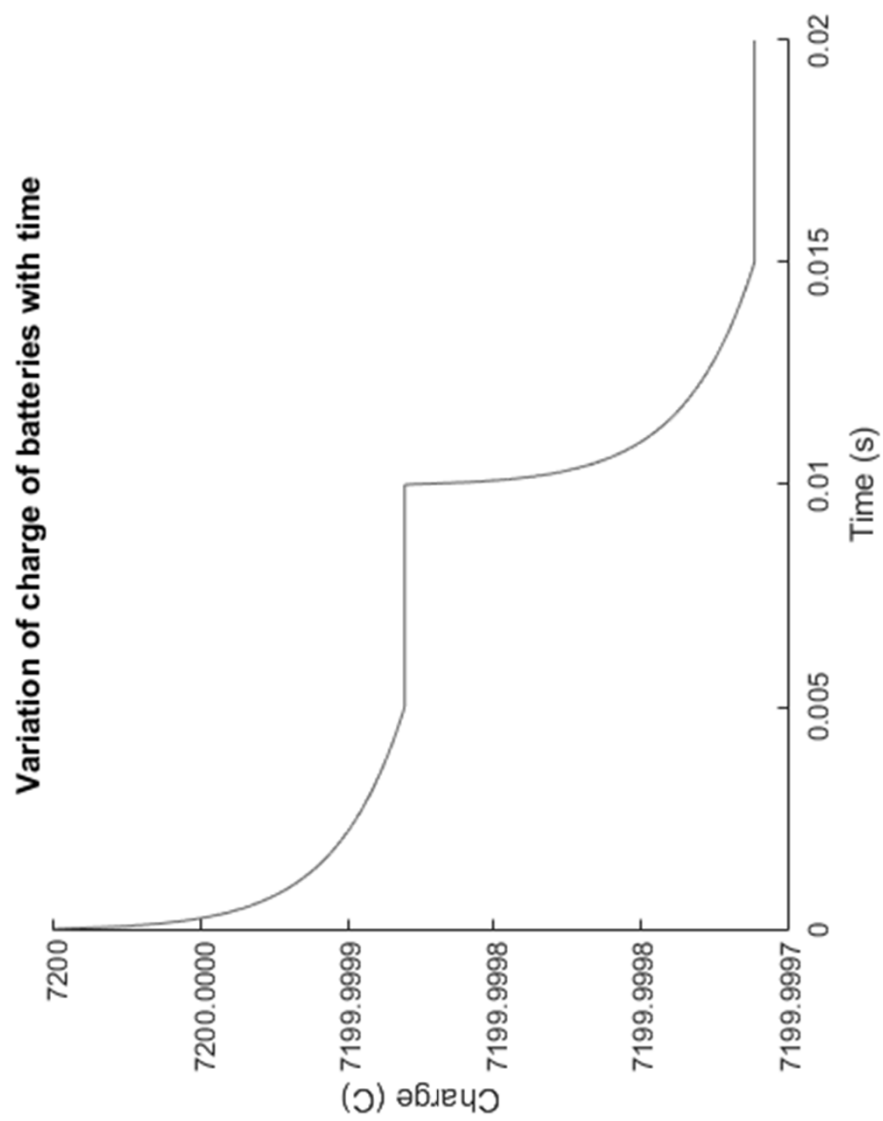


Fig. 16