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(43) 1998 10 07

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(73) 가 가
101 - 8442 1 1

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가 가
6 - 78, 가 가

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2 , C2 e (1) , 1 C1, DI
Trl . 2 C2 C3, LI D2
Trla 1 C4 (4)

QI FL2	Tr1 C6	Irlb , .	QI FL	FLI	FL2	, 2	C5 FLI
1							
1		1					
2	2						
3							
4	2						
5	3						
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5 - 211774

1 가
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1 가

가
가

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 (power factor) 0.9
 2
 가

5 - 211774

가
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가가

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2 , 가 , 2 , 1
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 2 가 , 1 , 1
 2 가 , ,
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 0
 , 1 2 ,
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 1 , 1 2
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가 , 2
가 , 1 , 가 , 2 .

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2 가 , 1
1 , 1
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3 .

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2
3 가
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3 가 , 2
2 가 , 1 , 가 ,

2 , 1 , 1 ,
가 , ,
1 , 1
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3 .

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2
3 가
2
3 가 , 2
2 가 , 1 , 가 ,

, 1 , , 2 가 , 1
 , 1 2 , 1 , 3
 , 3 가 , 2
 2 가 , 1 가 ,
 , 가 , 1
 , 가 (stress) ,
 , 가 , 가
 , 1 1 , 1 , e
 1 1 (1) 가 DI 1 C1 (1)
 2 1 C2 CI 가 1 CI DI 1 C1
 , 2 C2 가 (2)가 LI , (2) D3 C3, LI
 D2 가 , LI D2 D3

, (2) Trl 가 Trla (3)가 1 C4 (3) (4) 가 C5가
QI 가 , Q1 2

, QI (5)가
, Trl Trlb FL FLI FL2가 ,
FLI FL2 C6

, FL (6)가

, (3)가 (5) QI Trl Trlb Trl
Trla C4 ,

, QI , Trl Trla 가 C3, C3,
LI D3 가 C3
(1)

, (1) C3

, (1) C3 가 1 ,
(3) 가 2 QI , Trl Trla 가 1
CI , 가 2 C2 , 1 CI 2 C2 C2
(3)가 e 가 가 CI 2 C2
QI 가 (1) 가 (3)
가

, (1) 가 가 1 CI 2 C2 1
CI 2 C2 가 (3) , ,

, (1) 가 가 QI C3 C3
, (1) 가 (3)
(1) 가 , QI C3 Trl Trl
a 2 C2 , 2 C2 (3)가 가 가
, 2 C2 , 2 QI Trla CI 가 가
2 C2 (3) C2 1 CI

C2, QI, 1, CI, CI (3) 2

I, C3, LI, D2, 2, C2, QI, C3, LI, Q
 2, C2, (3), QI, 2, C2, C5, Trl
 Trl, 2, Trla, C2, 2, C5, 2, C4, 2, C5, Trl
 Trla, 2, C2, 2, C5, 2, C2, e
 가

C3, 1, C1, 2, C2
 LI, 2, C2
 e 가

2, C2, 3, FL
 (crest factor)

2, 4
 4, 2, DI, 1, CI, 2, 4, C2, 2, 1 (1)

DI, 3, 5
 5, 3, 2, C2, DI, 5, 3, 1

4, 6
 6, 4, 2, C2, Q2, (II), CII, 6, 4, Q2, 1, Q2
 (II), 2, C2

2 (3) , 2 C2 CII ,
 C2 가 0 ,

, 5 3 가 .
 , 5 7 .

7 5 , 7 5 1
 1 , DI Q3 , Q3
 (12) .

3) , (3) Trl 2 C2 (
 DI 가 , FL Trl 1 가 가 CI 2 , Q3 ,
 , 2 C2 QI C2 .

, 3 4 가 .
 , 6 8 8 10 .

8 6 , 9 7 ,
 10 8 (2) C3 LI 6 8 1, 2 3 ,
 D6

, C3 , LI D6 C3
 , C3 , D3 가 , D2
 QI C3 D3 가 , LI D2 가

, 9 11 .

11 9 , 9 6 , 4 ,
 2 C2 CII Q2 (II) .

, 7 8 가 , .

, 10 12 .

12 10 , 10 , 6 , 5
 , DI Q3 , Q3
 (12) .

, 8 가 .

, 11 13 13 15 .

13 11 , 14 12 , 1, 2
, 15 13 , 11 13 , 1, 2
3 L3 , Trl , 1 C4
L3 , L4 Tr2 Tr2a
, Tr2 Tr2b FL .

, 1, 2 Trl L3, L4 Tr2 ,
3 .

, 14 16 .

16 14 , 14 11 , 4
, 2 C2 CII Q2 ,
Q2 (II) .

, 12 13 가 .

, 15 17 .

17 15 , 15 11 , 5
, DI Q3 , Q3
(12) .

, 13 가 .

, 16 18 18 20 .

18 16 , 19 17
, 20 18 , 16 18
11 13 , 6 8 , (2) C3 LI
D6 .

, 19 21 .

21 19 , 21 16 ,
4 , 2 C2 CII Q2
, Q2 (II) .

, 17 18 가 .

, 20 22 .

22 20 , 20 16 , 5
, DI Q3 , Q3
(12) .

, 18 가 .

, 21 23 23 25 .

23 21 , 24 22 , 21 23 , 16
 18 , 24 23 Tr2 , FL , FLI, FL2 C6
 , CI2 , .

, FLI FL2 , 16 18 .

, 24 26 .

26 24 , 24 21 , 4
 , 2 C2 CII , Q2 ,
 Q2 (II) .

, 22 23 가 .

, 25 27 .

27 25 , 25 21 , 5
 , DI Q3 , Q3
 (12) .

, 23 가 .

, 26 28 28 30 .

28 26 , 29 27 , 26 28 ,
 21 23 , 6 8 (2) C3 LI
 D6 .

, 29 31 .

31 29 , 29 26 , 4
 , 2 C2 CII , Q2 ,
 Q2 (II) .

, 27 28 가 .

, 30 32 .

30 26 , 5 D1
 Q3 , Q3 (12) .

, 28 가 .

, 31 40 (6) 33 42 .

33 31 , 34 32 , 35
 33 , 36 34 , 37 35
 , 38 36 , 39 37
 , 40 38 , 41 39
 , 42 40 , 31 40
 (6) 1 30 .

, 31 (6) Trl Trlb CI2
 FL FLI, FL2 .

, 32 (6) 31 (6) FL FLI, FL2 ,
 C6 .

, 33 (6) L3 Tr2 Tr2a , T
 r2 Tr2b FL FLI, FL2 , C6 T .

, 34 (6) 33 (6) Tr2 Tr2b CI2
 , C6 .

, 35 (6) 34 (6) FL FLI, FL2
 C6 .

, 36 (6) Tr2 Tr2b L4 FL
 FLI, FL2 , C6 .

, 37 (6) 36 (6) C6 , FLI, FL2
 CI2 .

, 38 (6) 37 (6) FL1, FL2 C6
 .

, 39 (6) L3 L4 Tr2 Tr2a
 , Tr2a CI2 FL FLI, FL2 .

, 40 (6) 39 (6) FL FLI, FL2
 C6 .

, 41 43 44 .

43 41 , 43 , e
 L21 C21 (21)가 , (21)
 C22가 (1) 가 , (1)

, 1 C22 , (2)가 , (2) C3, LI
 D2 가 , LI 1 D2 2 D3가
 , LI C3 3 D6 .

, C4 (2) (3)가 . (3) L3 1
 QI (4) 가 QI , 가 . ,
 , L3 L4 FL FLI, FL2가 ,
 FLI, FL2 C6 .
 , FL (6)가 .
 , 44 .
 , (3) QI , L3 C4
 , C4 .
 , (2) C3 ,
 (3) Q1 , C3, L21, 2 D3, QI ,
 (2) 가 , C3 , 2 D3 ID3
 . , (2) 가 , C3 (3)
 . , QI , L21 , L21 가
 ID6 , C3, L21 3 D6 , L21 C3

, 1 D2 3 D6 C22
 C3 , 3 D6 , 2 가 , 1 D2 VD2 가
 . , D3 가 , 가가

, (2) C3
 C3 (3)가 .
 , 42 45 46 .

45 42 , 42 41 ,
 C22 DI 1 CI 2 CI C2 , 1 CI .
 , 42 , 46 .

, (3) QI , C4 L3
 , L3 .
 D3 QI , L3 가 , C3, LI
 가 C3 . , C3 LI (2)

, (2) C3

, (1) C3 , 가
 2 (3) C2 QI , 1 CI L3 2 1 CI , 가
 e 가 가 . CI 2 C2 (3)가
 가 (1) 가 (3) QI

, (1) 가 가 1 CI 2 C2 .
 가 (3)
 1 CI 2 C2 , ,

, (1) 가 가 QI C3 . ,
 (1) 가 C3, LI, 2 C3 (3) QI 가 .
 QI C3, LI, 3 D3 QI 가 ,
 LI 가 C3, LI 3 D6
 C3 1 D2 3 D6 C2
 VD2 가 , 3 D6 , 2 가 , 1 D2
 가가 . D3 가

, (1) 가 , C3 (3) 2 F
 (1) C2 , 2 C2, L3 QI 가 L4, 2
 L C2 QI 가 (1) , 1 QI 가 (3)
 C2 1 CI, L3 QI (3)

, C3 LI , Q
 I C3, 2 C2, 1 D2 QI , L21 ,
 L1 2 C2 가 2 C2가 ,
 e 가 , 46

, C3 C3 1 CI 가 (1) 가 ,
 lin Vin 가 (21) , 46

, 43 47 .

47 43 , 43 41 , 2
C2 DI .

, 44 48 .

48 44 , 44 42 ,
DI 1 CI 2 C2 (1) .

, D1 , .

42 .

, 45 49 .

49 45 , 45 41 ,
(22) 3 FL (22) Q1 CT1 R1 L
CT1b C25 Q1 CT1a CT1
(22)가 C26 Q2 가 , C25
가 Q1 D12 R2

, 49 .

49 41 .

49 (3) (12) Q2
, C25 C26 , (3) 가
(3) C3 , Q2
C25 C26 , (3)

, C3 (3) , L1, 2
D3, 3 D6 Q1 가 , Q1
C25 가 C26 , .

, 42, 43 44 (22) .

, 46 50 .

50 46 , 46 41 ,
(25) Q4 (26)가 , (26) (25) ,
R5 Q5 C3 L1

46 .

46 , 41 46 , (25)
 Q4 Q5 Q4 C3
 Q5 Q4 (3)

D3, 3 , D6 C3 , (3) , LI, 2
 가 QI 가 , QI
 , Q4, Q5 가 , (25)
 (26)

, 42, 43 44 (22)

, 47 50 51 54 .

51 47 , 52 48 ,
 53 49 , 54 50 , 4
 1 46 .

47 , L3 L4 , Trl , C
 4 Trla , Trlb FL FLI, FL2 .

, 48 , L3 , Tr2 , C4
 Tr2a , Tr2b L4 FL FLI, FL2 .

, 49 , 47 FLI, FL2 C6 ,
 FLI, FL2 C31 .

, 50 , 48 FLI, FL2 C6 ,
 FLI, FL2 C31 .

, , FL , 2 .

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(57)

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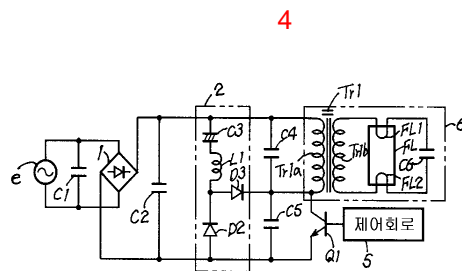
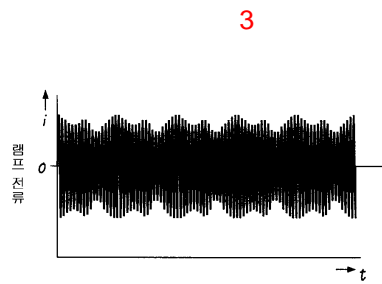
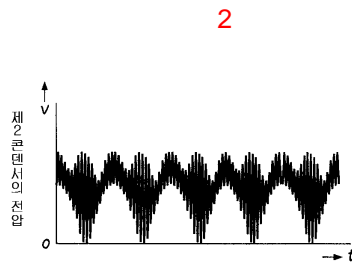
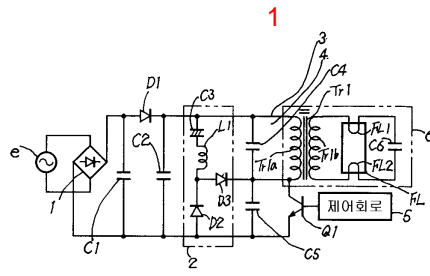
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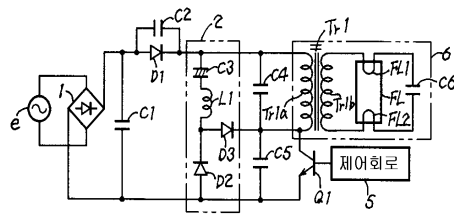
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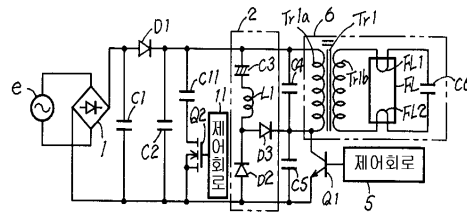
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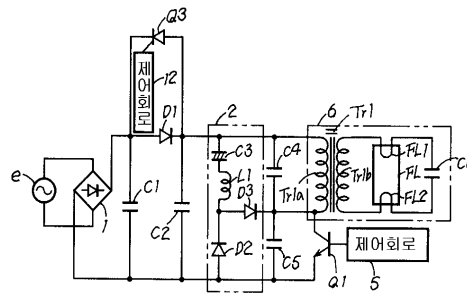
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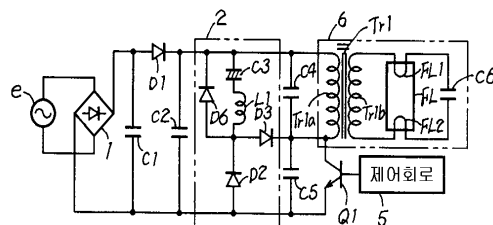
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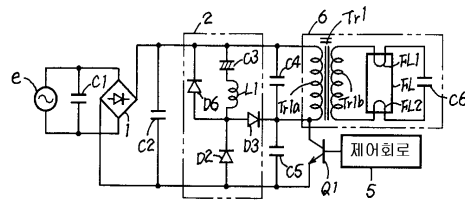
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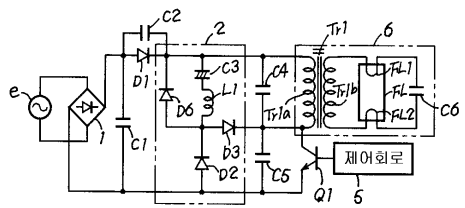
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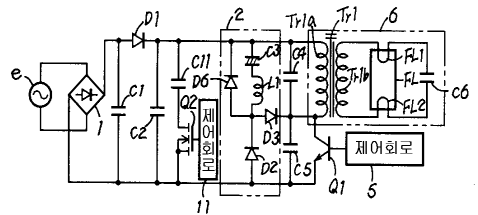
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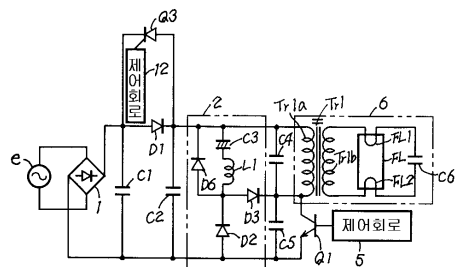
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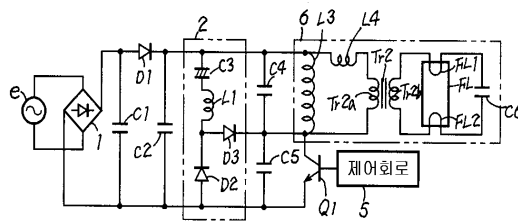
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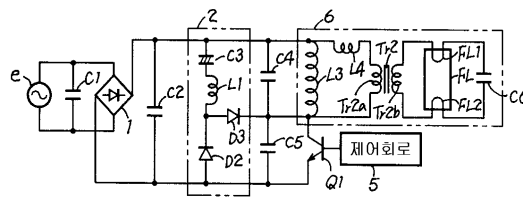
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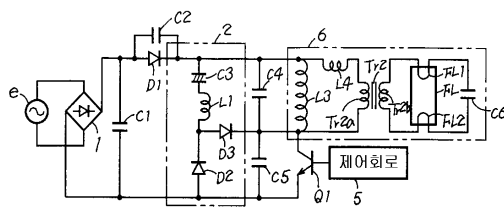
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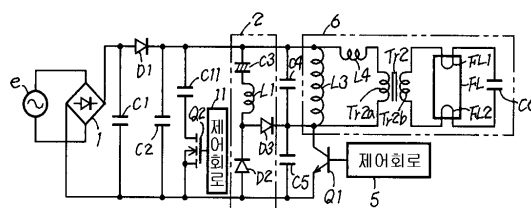
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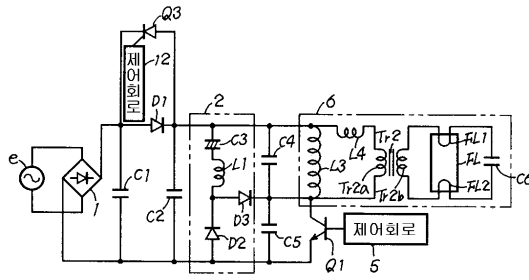
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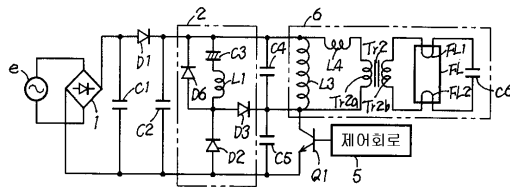
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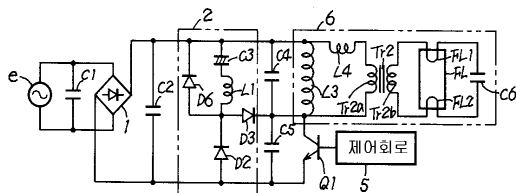
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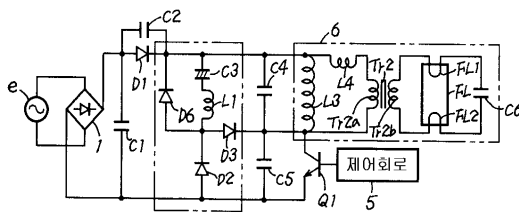
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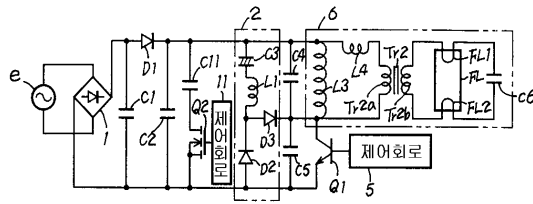
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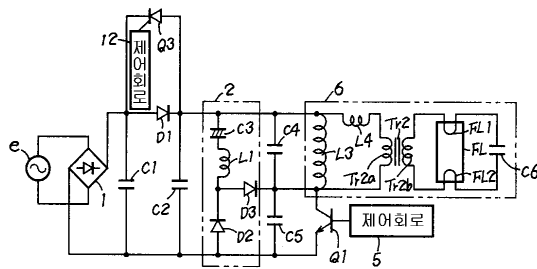
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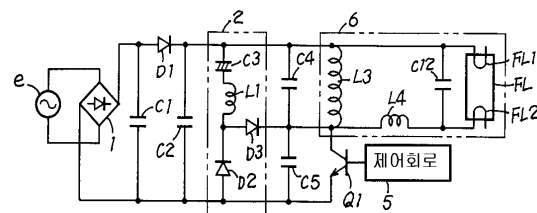
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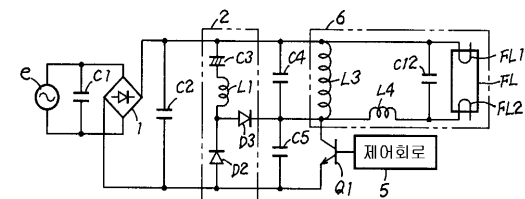
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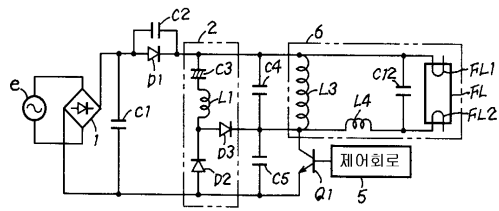
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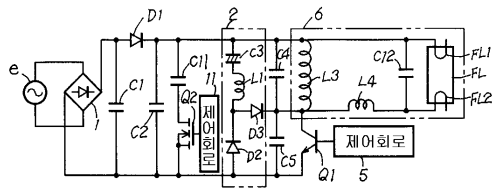
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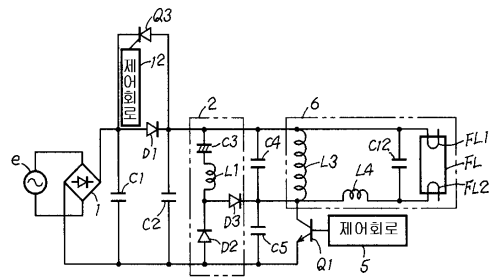
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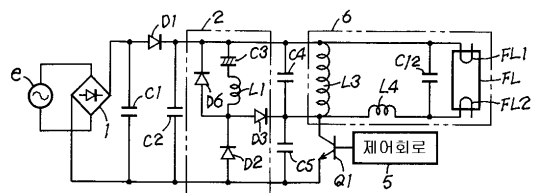
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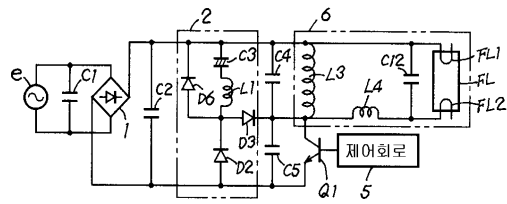
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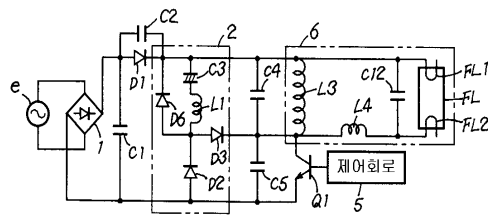
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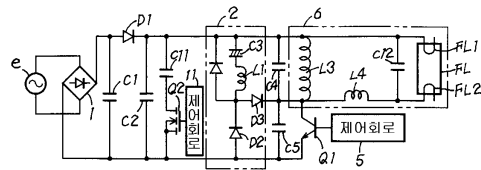
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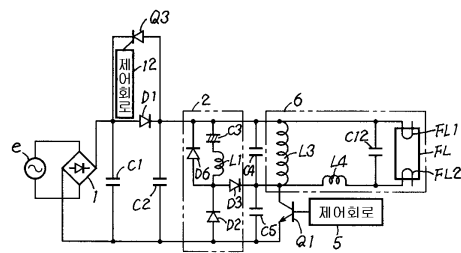
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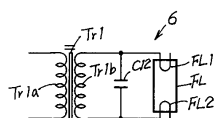
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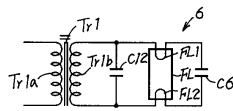
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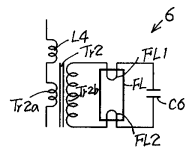
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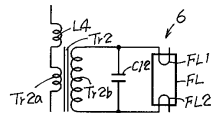
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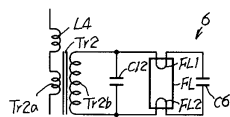
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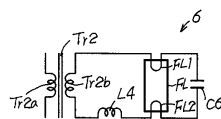
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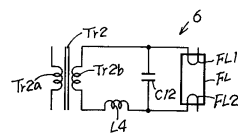
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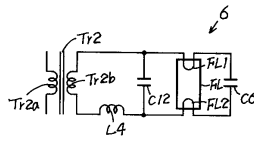
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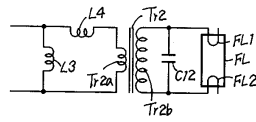
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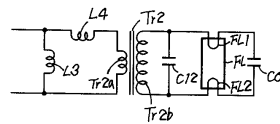
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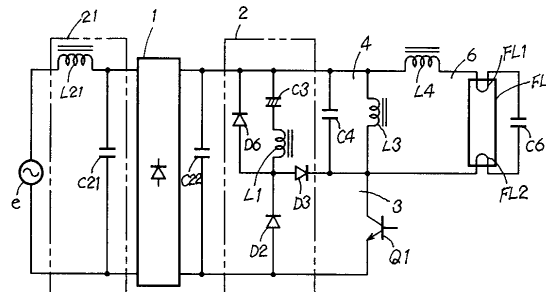
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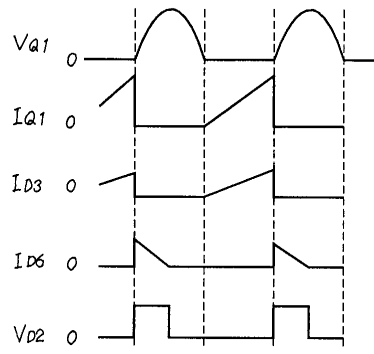
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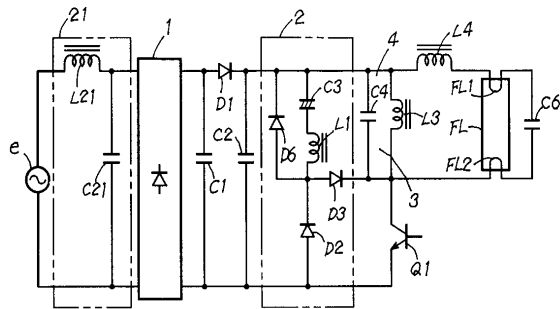
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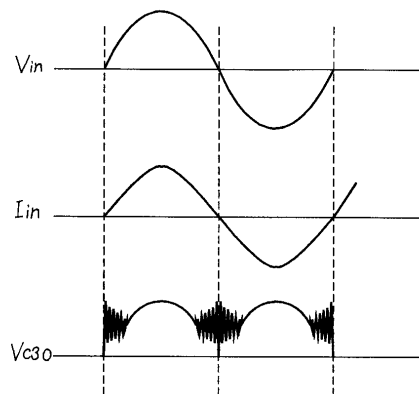
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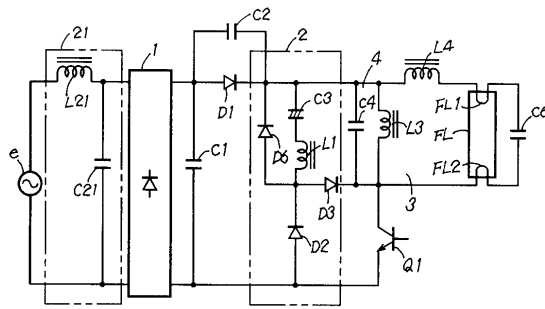
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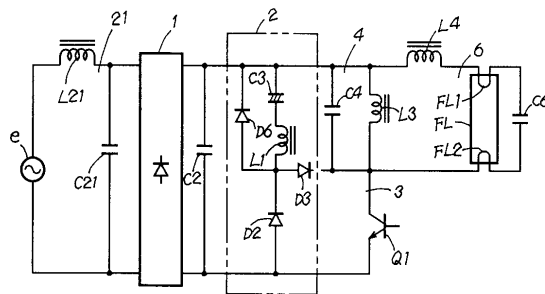
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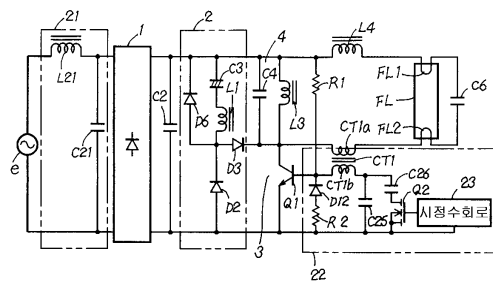
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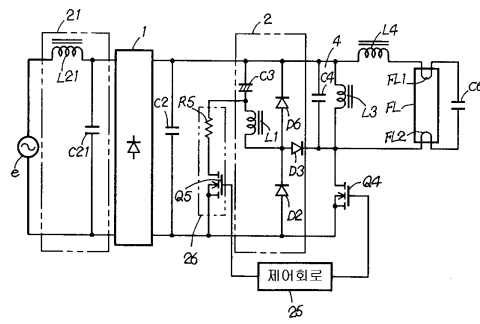
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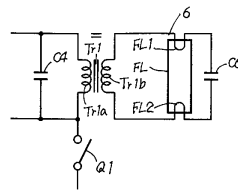
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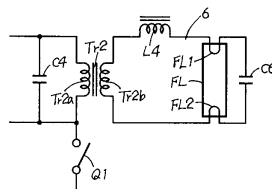
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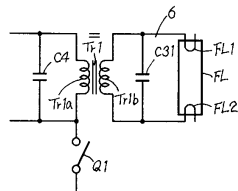
51



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