

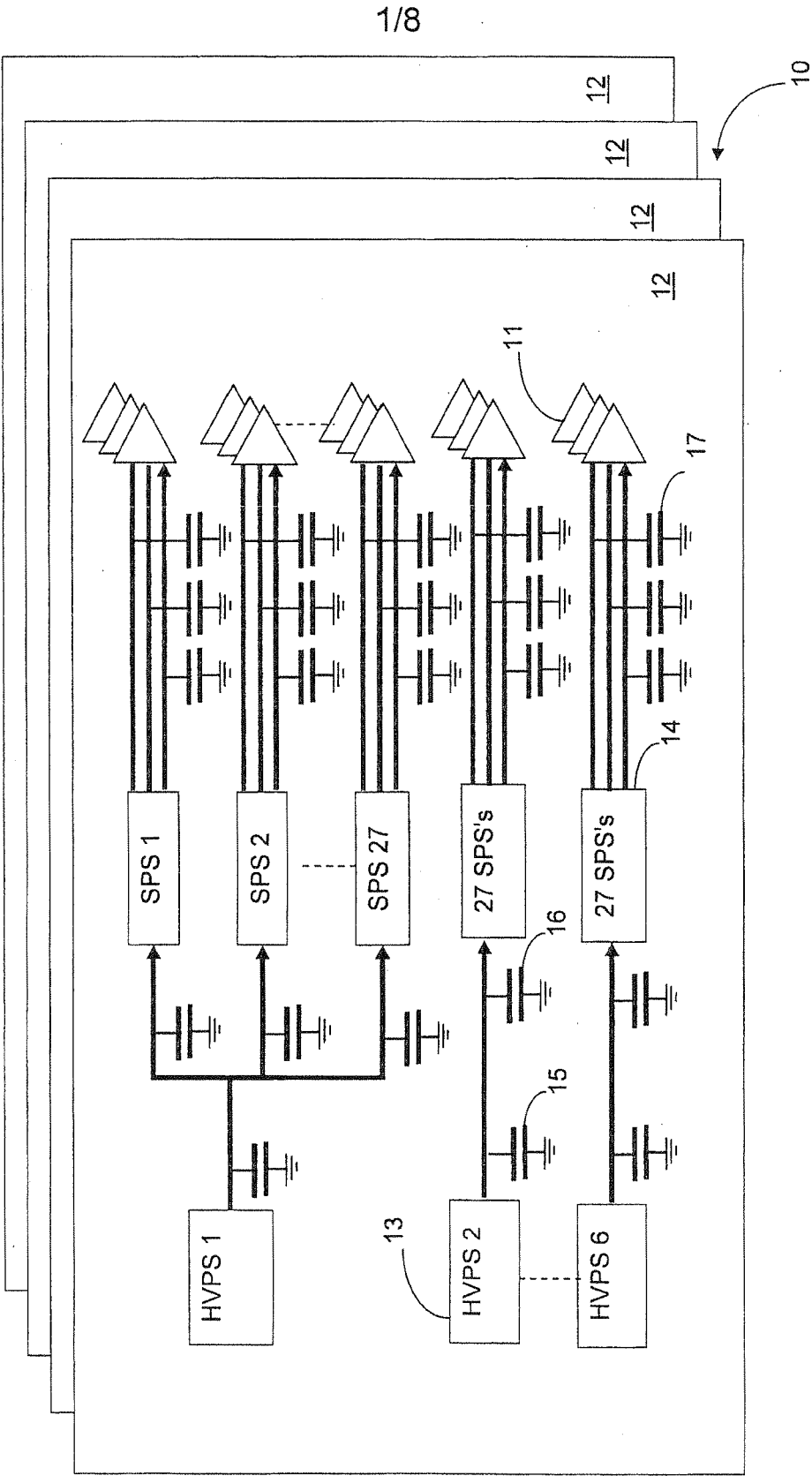


FIG. 1

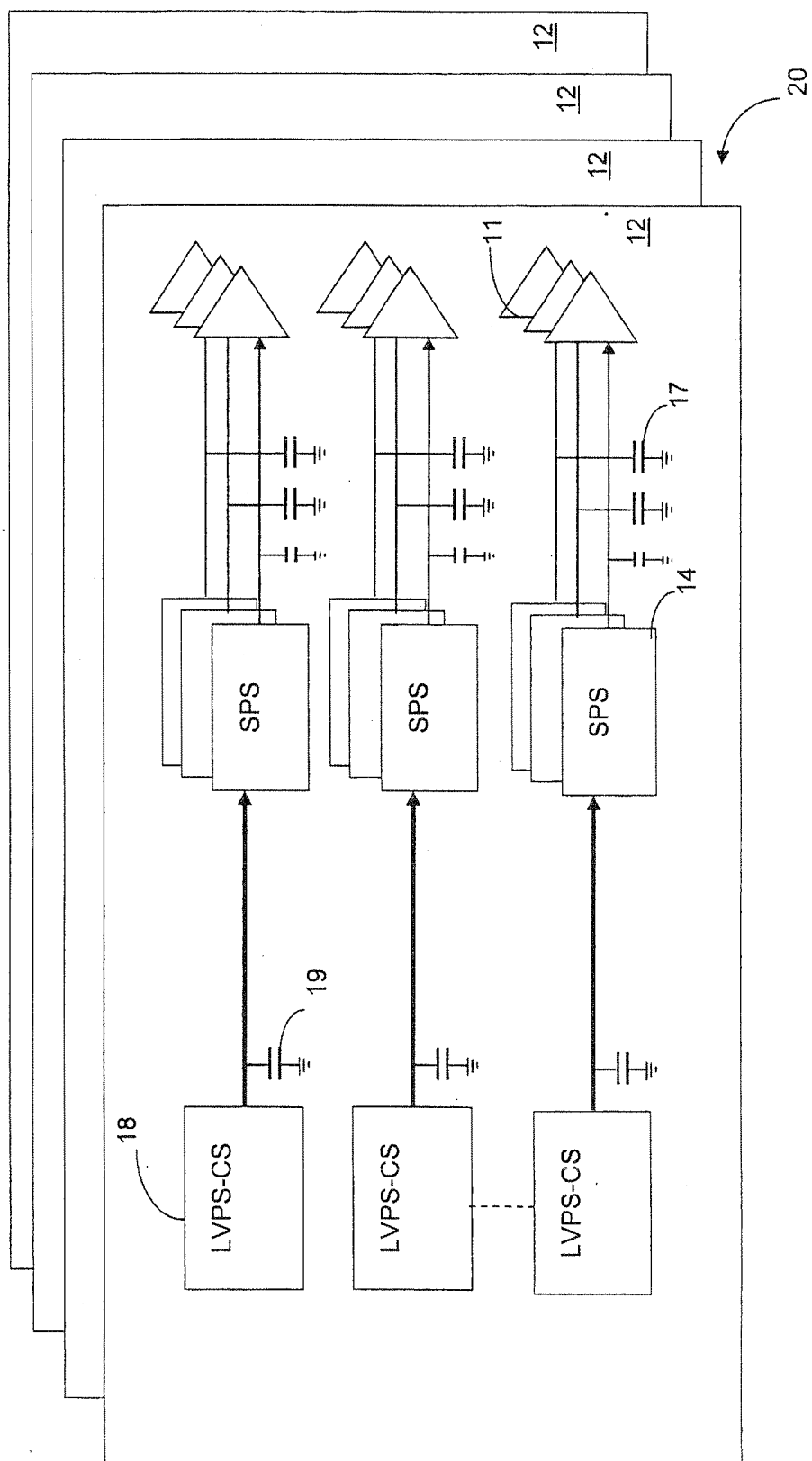
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| Duty Cycle<br>10% |            |          |     |         |        |           |          |      |         |          |           |           |       |
|-------------------|------------|----------|-----|---------|--------|-----------|----------|------|---------|----------|-----------|-----------|-------|
| Module            | Module Qty | Load Qty | Vin | Iinp    | In avg | Pin_p     | Pin_avg  | Vout | Iout_p  | Iout avg | Pout_p    | Pout avg  | Eff.  |
| TR                | 10,368     |          | 8.7 | 9       | 0.9    | 78        | 7.8      |      |         |          | 20        | 210       | 25.5% |
| SPS               | 648        | 16       | 220 | 6.7     | 0.7    | 1,474     | 147.4    | 8.7  | 144.0   | 14.4     | 1,253     | 125.3     | 85%   |
| HVPS              | 24         | 27       | 270 | 173.4   | 17.3   | 46,817    | 4,681.7  | 220  | 180.9   | 18.1     | 39,795    | 3,979.5   | 85%   |
| Wall (RFI_F)      |            | 6        | 270 | 1,050.9 | 105.1  | 283,742   | 28,374.2 | 270  | 346.8   | 34.7     | 280,905   | 28,090.5  | 99%   |
| Antenna           | 1          | 4        | 270 | 4,203.6 | 420.4  | 1,134,968 | 113,497  | 270  | 1,401.2 | 140.1    | 1,134,988 | 113,496.8 | 100%  |

FIG. 2

| Module       | Module Qty | Load Qty | Vin | Iinp  | In avg | Pin_p  | Pin_avg | Vout | Iout_p | Iout avg | Pout_avg | Pout   | Eff. |
|--------------|------------|----------|-----|-------|--------|--------|---------|------|--------|----------|----------|--------|------|
| TR           | 10368      |          | 8.7 | 9     | 0.9    | 7830   | 7.8     |      |        |          | 20       | 210    | 26%  |
| SPS          | 648        | 16       | 70  | 2.53  | 2.11   | 17687  | 147.4   | 8.7  | 144.0  | 14.4     | 1253     | 125.3  | 85%  |
| LVPS-CS      | 24         | 27       | 270 | 20.8  | 17.3   | 5618   | 4682    | 70   | 68.2   | 6.8      | 4775     | 3979   | 85%  |
| Wall (RFI_F) | 4          | 6        | 270 | 126.1 | 105.1  | 34049  | 28374   | 270  | 416    | 34.7     | 33709    | 28090  | 99%  |
| Antenna      | 1          | 4        | 270 | 504.4 | 420.4  | 136196 | 113497  | 270  | 168.1  | 140.1    | 136196   | 113497 | 100% |

FIG. 4



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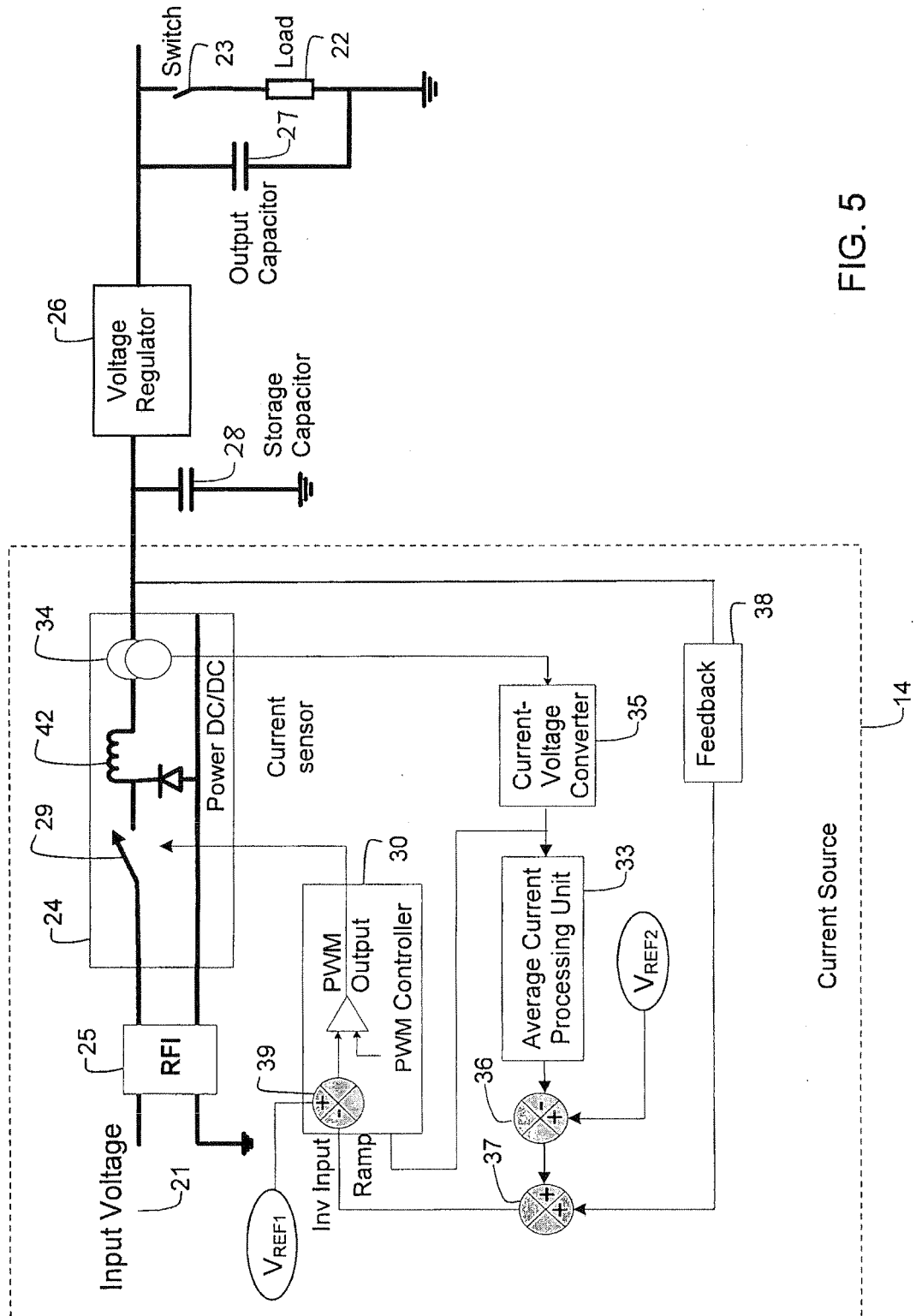


FIG. 5

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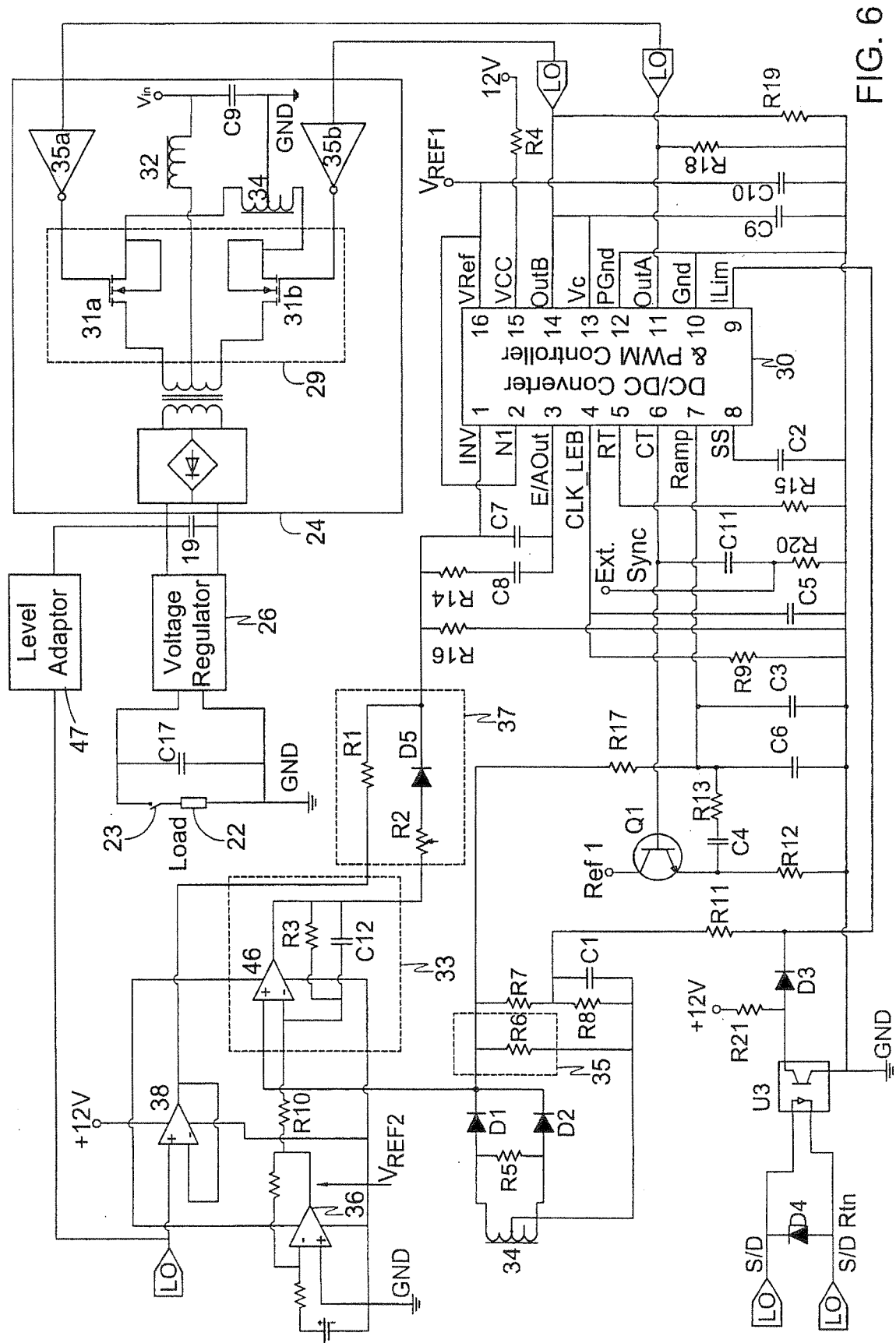


FIG. 6

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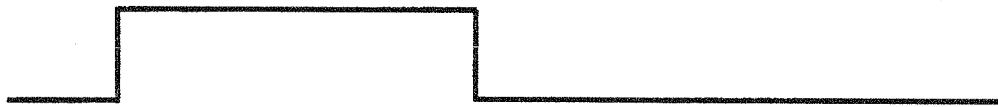
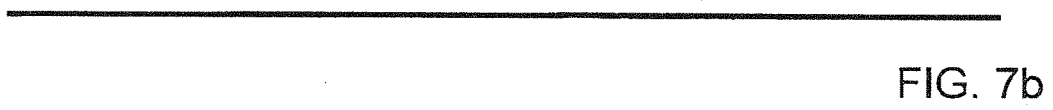


FIG. 7d

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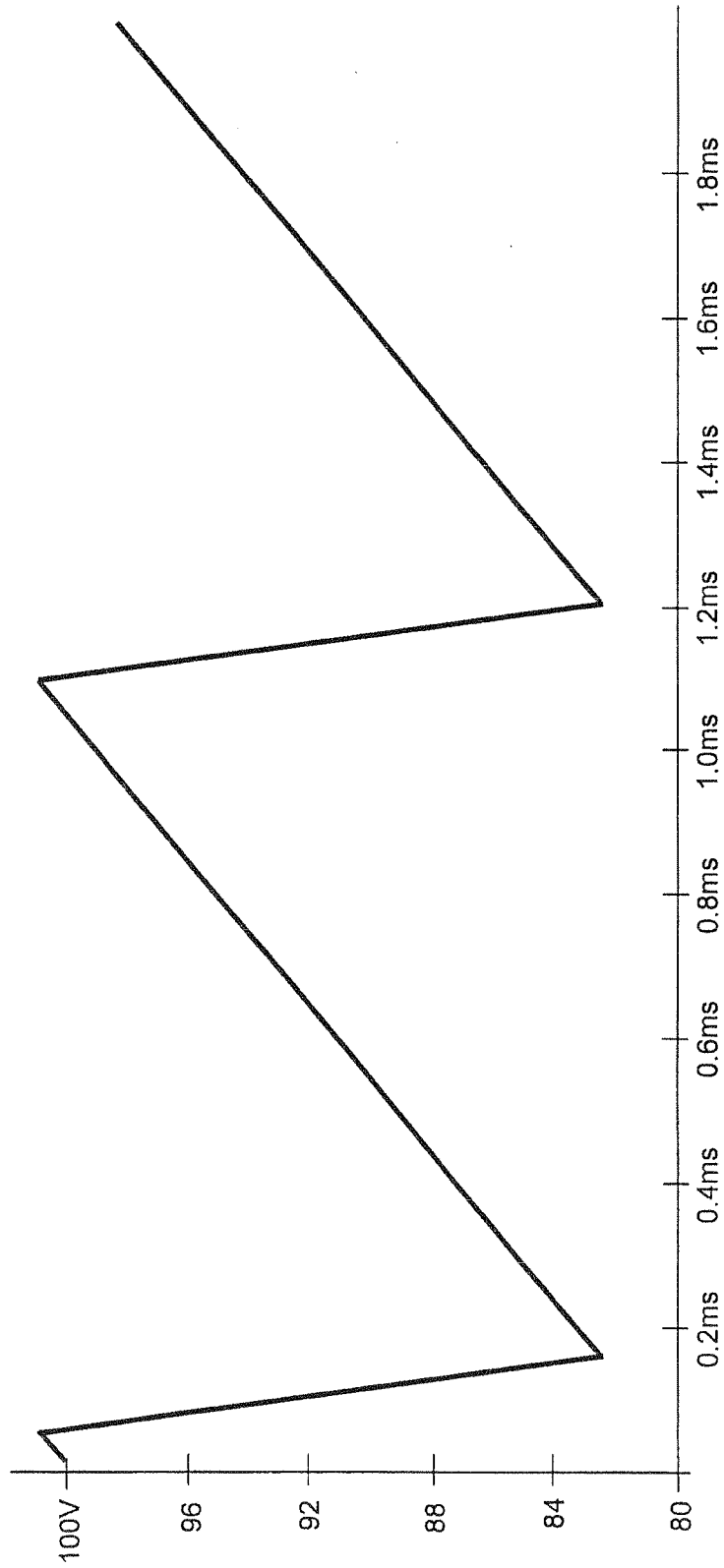


FIG. 8

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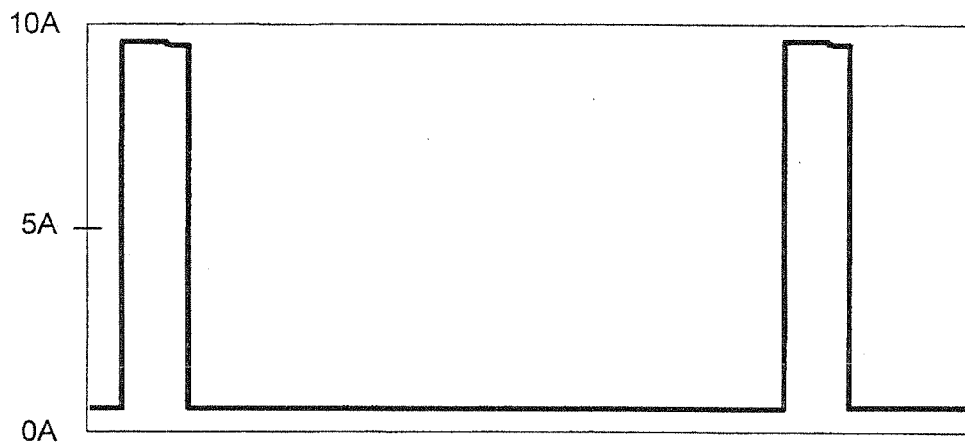


FIG. 9

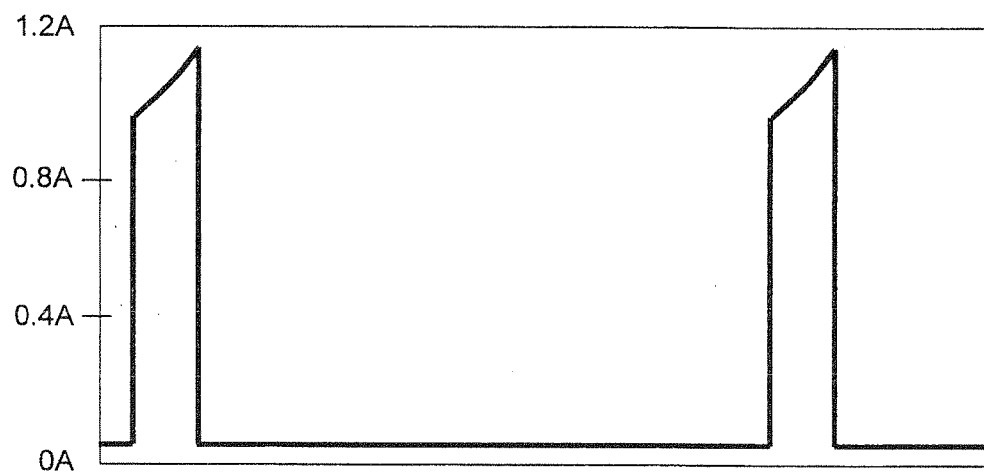


FIG. 10