

- [54] **CONTROL CIRCUITS FOR AN ELECTRIC TRACTOR**
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- [73] Assignee: **General Electric Company**
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- [58] Field of Search..... **318/386, 387, 400, 405, 406, 318/421, 422, 546, 549**

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[57] **ABSTRACT**

The main current conduction path of a controlled rectifier and a starting network therefore are connected in parallel across a source of unidirectional potential through a single pole, double throw switch. With the switch in the start position with the pole engaging one contact the starting network is connected in circuit with the source of operating potential and in the other position with the pole engaging the other contact, circuit is completed through the controlled rectifier. The triggering voltage developed by the starting network decays rapidly with time the starting network is out of circuit. Accordingly, after conduction has been established in the controlled rectifier by switching the pole of the switch from the start to the operate position, should conduction be interrupted by a safety switch in the main conduction circuit of the controlled rectifier conduction cannot be reestablished therein by simply closing the safety switch but requires the return of the single pole, double throw switch to the start position to establish triggering potential for the controlled rectifier.

[56] **References Cited**

**UNITED STATES PATENTS**

2,452,127	10/1948	James	318/422
2,602,888	7/1952	Audier	318/400
3,231,809	1/1966	Greer	318/400
3,390,318	6/1968	Gilbert	318/422

**8 Claims, 6 Drawing Figures**

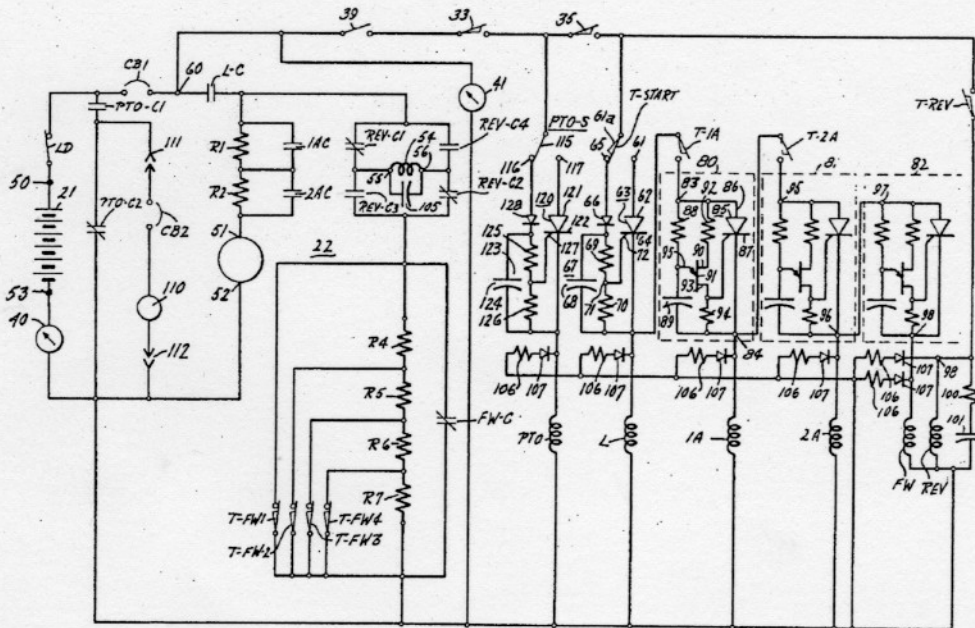


Fig. 1.

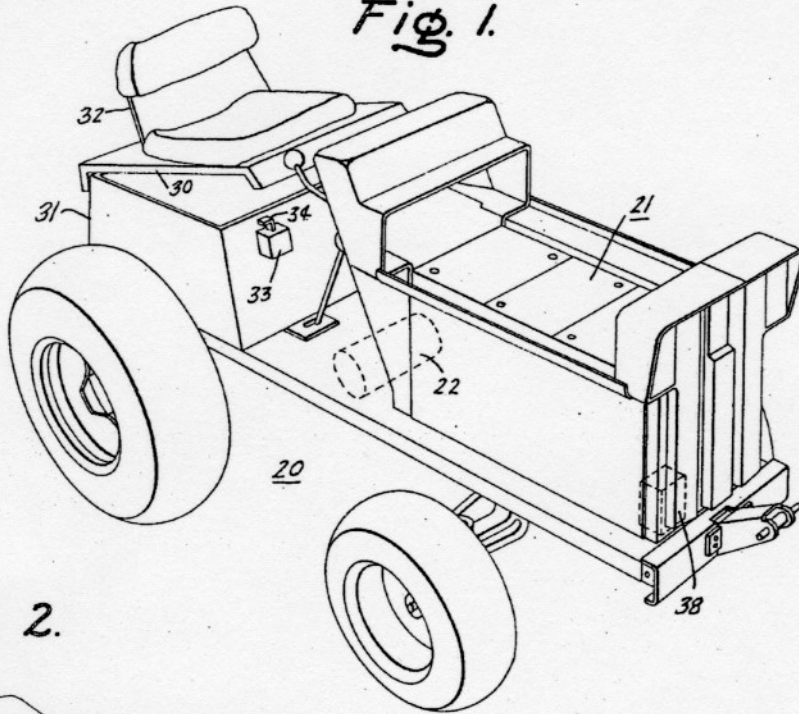
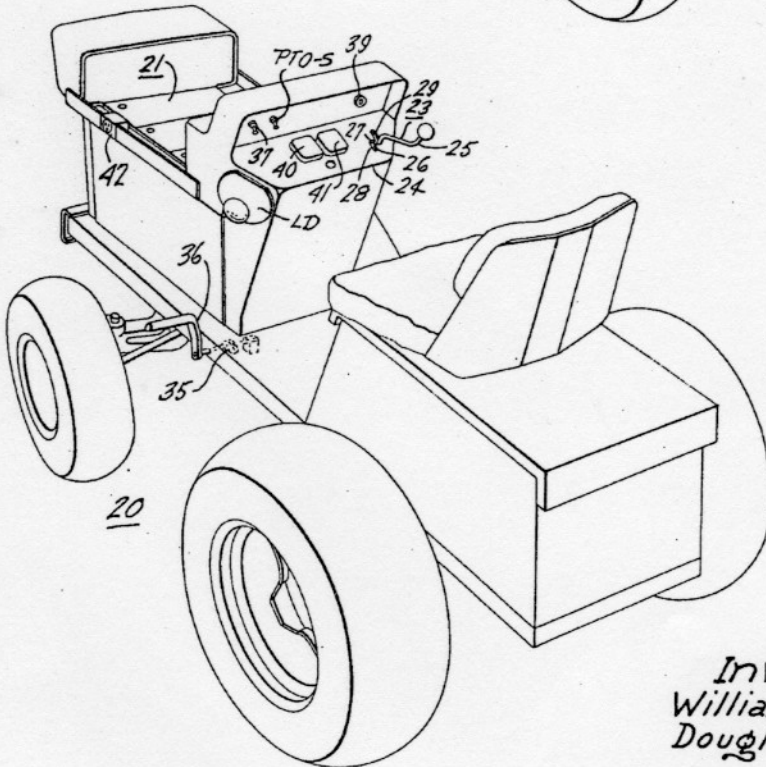


Fig. 2.



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