

SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE • SEPTEMBER 23, 1944

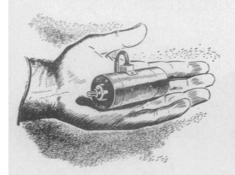


Triplets
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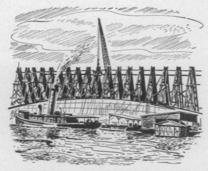
A SCIENCE SERVICE PUBLICATION

STRANGE JOBS FOR ELECTRIC MOTORS

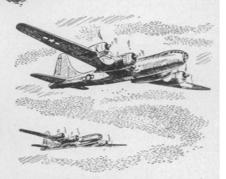
Cannon shoots through doughnut motor. In the nose of this fighter plane, right in the middle of the G-E motor that feathers the propeller, is a 37-mm. cannon. Building a motor with a hole where the shaft ought to be was a brain twister, but G-E engineers solved this problem with an electric motor shaped like a doughnut.



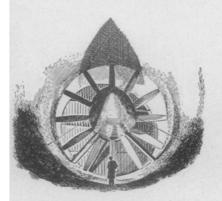
This Tom Thumb motor loads the guns on our bombers and fighters. Other electric motors raise and lower wheels, open bomb bay doors. War requires 40,000 different motor models, keeping G-E research and engineering men busy.



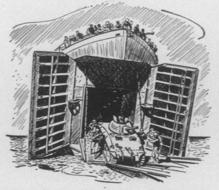
Turning a battleship over. 21 G-E motors teamed up for 21-thousand-ton pull to turn the capsized *Oklahoma* right side up at Pearl Harbor. Electric motors see action on every front, in weapons, and in tools to repair them in the field.



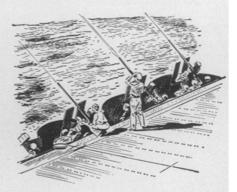
B-29 Superfortress. 150 electric motors act as muscles beneath the sleek exterior of the B-29. They power, among other things, the gun turrets in the G-E designed fire-control system that arms the Superfort against attack.



Outblowing a hurricane. This twelvebladed fan has 18,000 horsepower behind it, from one giant electric motor. In wind tunnels like this, G-E motors, sometimes totalling 30,000 hp., produce winds five times as strong as a hurricane.



Push-button doormen for LST's. Push a button, and out pops a tank. It's not quite that simple, but the doors and ramp on an LST are opened, at the push of a button, by electric motors. On an LST, there are 140 electric motors.



Cooling guns. Anti-aircraft guns are cooled by electrically driven pumps which circulate cooling fluid around their barrels. There are more than 900 electric motors on a battleship. General Electric Company, Schenectady, N. Y.

- General Electric produced 7 million horsepower of electric motors in 1943.
- Over 2 million G-E electric motors will join the armed services this year.

FOR VICTORY—BUY AND HOLD WAR BONDS-



Hear the General Electric radio programs: "The G-E All-girl Orchestra," Sunday 10 p.m. EWT, NBC—"The World Today" news, every weekday 6:45 p.m. EWT, CBS.



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