

## Under-Water Monoplane Is Designed as a Speedy War Machine

A SPEEDY submersible aquaplane is the latest proposal for a new type of war machine. Judging from successful performances of miniature models the machine is said to be capable of performing under water all the tricks that an airplane does in flying.

Three of the models are shown above.

The design of the aquaplane, which would be useful for naval bombing and torpedoing, is very similar to the monoplane, except that the major wing slants downward instead of upward. The craft would be lighter than water, so that it would rise if the motor should fail. Increasing the speed and adjusting the rudder

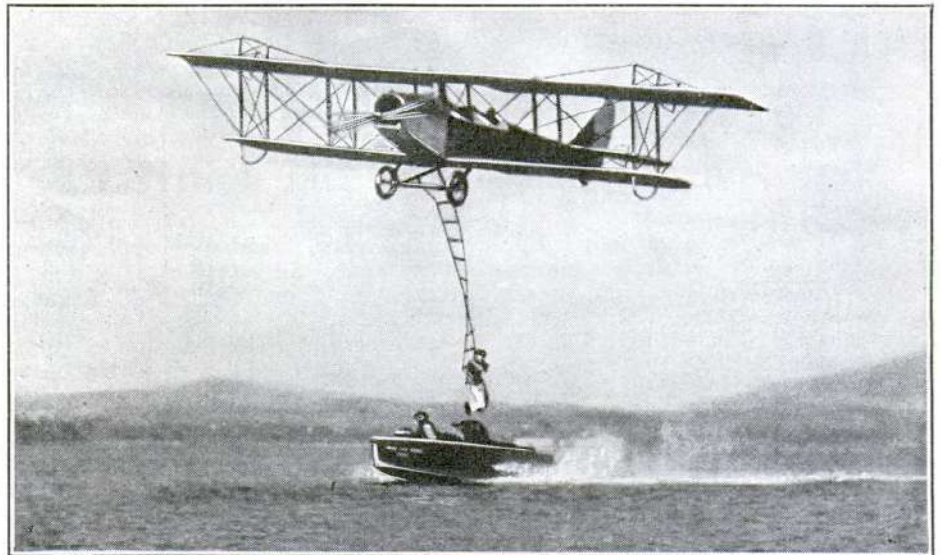
would submerge the craft. Wheels would allow it to cruise along the bottom.

The motor power would be electric. Cruising vision would be furnished by a periscope. The pilot would be seated under a dome provided with hatch and sidelights. Oxygen cylinders would be used for a prolonged stay under water.

## From Speedboat to Plane on Swinging Ladder

THE thrilling feat of transferring from a speeding motorboat to an airplane flying just above it was achieved at Coronado Beach, Calif., recently by Floyd Parsons, a daring stunt performer.

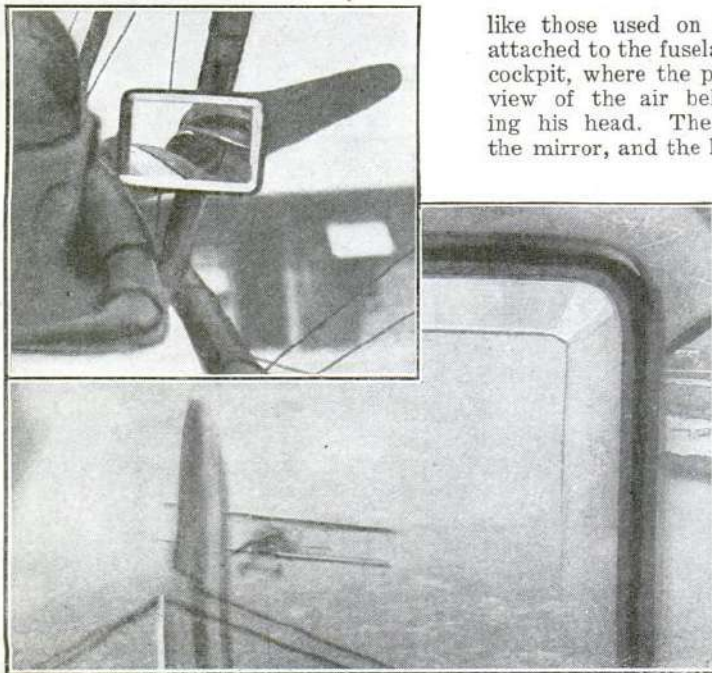
While the boat was speeding nearly a mile a minute the plane came up from behind, dangling a rope ladder from its under carriage. Parsons, poised on the stern of the boat, grabbed the ladder as it passed, and climbed to the plane as it rushed through the air.



The daredevil, grasping a swinging ladder, climbs from speedboat to plane

## Rear-Vision Mirrors for Safety in Flight

TO AVOID collisions in midair the U. S. navy is now equipping its planes with rear-sight mirrors very much



The upper picture shows the rear-vision mirror in front of the pilot. Below: The pilot's view of an airplane behind him when this picture was taken

like those used on automobiles. It is attached to the fuselage at the side of the cockpit, where the pilot may get a clear view of the air behind without turning his head. The upper view shows the mirror, and the lower view what the mirror showed the pilot when this picture was taken.

RADIO equipped seaplanes carrying observers are cooperating with a liquor-running fleet on Puget Sound, according to reports from Seattle, Wash. The planes, it is said, keep the members of the fleet informed of the approach of government speedboat rum chasers.

## Dreadnought of the Air Launched in England

GREAT BRITAIN'S first dreadnought of the air, said to be the most powerful single-engined airplane in the world, recently made its first test flight from Brough airdrome. The huge plane measures 88 feet from wing tip to wing tip. It is 54 feet long and 19 feet high. It is driven by a 1000-horsepower Napier Cub engine. Although this power plant has 16 cylinders, it weighs only 2200 pounds. A locomotive developing the same horsepower weighs more than 147,000 pounds.

Some idea of the huge proportions of the machine may be obtained from the fact that its single propeller is more than  $1\frac{1}{2}$  times the size of a large billiard table. The tail alone is as large as an ordinary scouting plane. The plane is capable of carrying about three tons of bombs or torpedoes.

In spite of its great size, the test pilot of this great war monster declared the air leviathan was as easy to handle as a small, light plane.