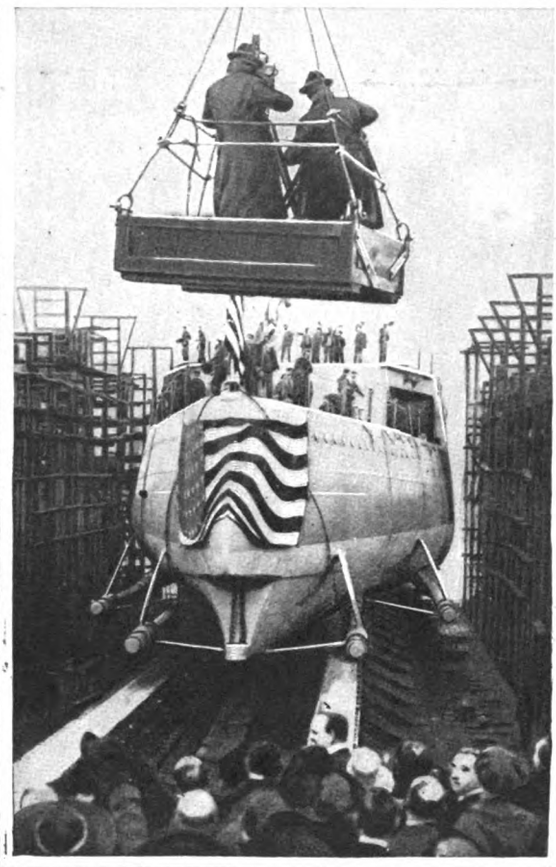
## To Study the Weather

BOX-KITES used by weather men for measuring atmospheric conditions occasionally develop a tendency to fly sideways or to perform other antics in the air that interfere with the accuracy of observation.

If there is one weak stick in the framework of the kite, the strain of the wind on the sails is sufficient to produce distortions, and this leads to bad flying. Such defects are not, however, generally apparent until the kite is in the air.

It has been found that a kite fastened by a short line to the top of a flagpole will fly steadily in ordinary winds, and can be studied at leisure.



## Good Positions, Good Pictures

WHEN the *Omaha* was launched at Tacoma, Washington, the moving-picture camera-men scratched their heads trying to think of a suitable place to "shoot" the picture from. They wanted to be high and in the center.

Why not use the crane and a material-handling box? Within fifteen minutes' time they were swung out over the crowd. When the *Omaha* started down the launching-ways, two cameras were very busy.

## Cleaning Tall Street Lamps

IN the larger cities, a truck with an adjustable platform is used to take care of the street lamps. The man in our picture does the work without a truck. He carries a single-pole ladder that has a hook at one end. He simply places the hook over the top of the lamp-post and climbs up.

The pole has heavy steel rungs to support him.

When he gets to the top, he twists his legs around the ladder to hold himself, and renews or cleans the lamp.

When he has finished his work, he climbs down, and carries his ladder to his next job.

## One Man Operates This Conveyor

ONCE thirty men used to do the work this conveyor is now doing. The engineer who designed this conveyor used to stand and watch a score of men toiling in the sun to lift boxes and barrels up the embankment.

This was down on the old Mississippi, where the sun is really hot. The engineer convinced the officers of his company that he could get the material up the embankment at a fraction of the price they were paying.

They gave him seven thousand dollars, and he set about building this electric conveyor. It has a moving belt that pulls the boxes and barrels up the slope in a hurry.

## About Machine Dish-Washing

FEW human dish-washers would refuse to give up their jobs to machines. The electric dish-washer is an expensive piece of mechanism in home kitchens; but in restaurants and school kitchens it pays to employ machinery for cleaning dishes.

Hand-washed dishes contain forty times as many bacteria as machine-washed ones.

## A Ton of Steel at Every Shot

THIS is the way the United States government would build "Big Berthas." Let us compare this big fellow with the guns carried on the old *Constitution*, which did its fighting in the days of our great-grandfathers. A broadside from the *Constitution's* twenty-two 32-pounders had a total weight of 704 pounds. The shell from this big gun weighs 2700 pounds and measures 16 inches in diameter.

The new gun is of the disappearing type, and is to be used in coast-defense work. The slanting cape of steel is to ward off bombs that might be dropped by enemy airplanes.