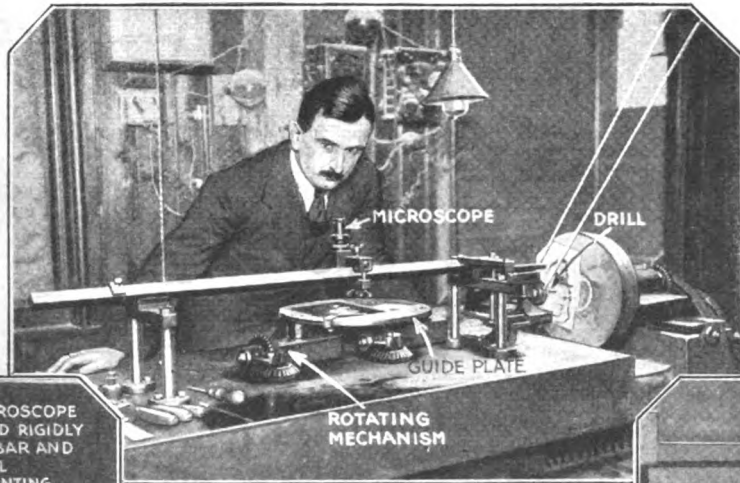
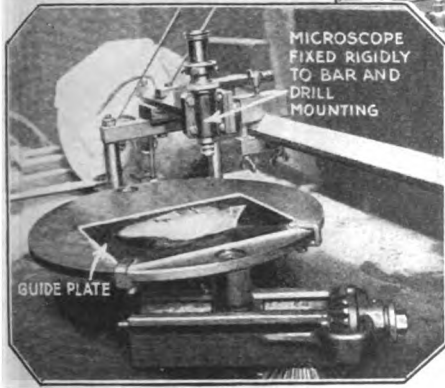


nize in it a method that will make possible the reproduction of the works of the old masters on any scale and to any degree of relief. Friezes and sections of pediments located in difficult positions for extended study by a sculptor could be photographed and reproduced in perfect detail. By reversing the action of the machine it is thought that concave engravings in the form



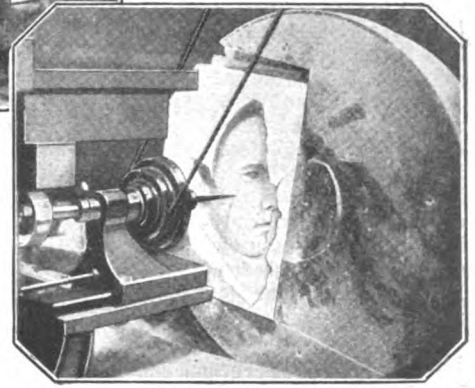
of dies for pressing medals could be readily produced. It is well within the realm of reason that just as the photograph made possible the enjoyment of great paintings by multitudes of people, photo-sculpture will bring about universal appreciation of masterpieces of sculpture now available only to those who can afford to visit the large art galleries where they are exhibited.



Above is Howard M. Edmunds, the inventor, at work on his machine. The drill at the right is carving a bas-relief from a block of alabaster

The guide plate of opal glass containing the spiral lines is attached to a motor driven table, as shown at left

A rapidly turning drill, shown at right, moves against the piece of work as the microscope follows the guide plate lines



Wind Operates Traffic Signal Light

BY COMBINING the anemometer, or wind gage, with a silent policeman, the city of Detroit has produced a wind operated safety signal for traffic that cannot fail to attract attention.

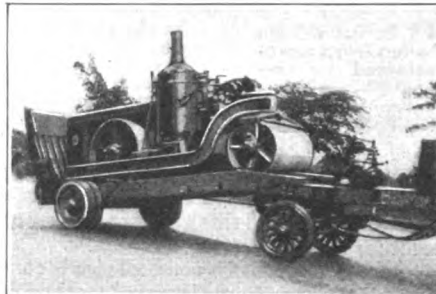
At the top of the pedestal, which is heavily weighted at the base, is a red globe



Small cup shaped vanes, rotated by the wind, operate this silent traffic policeman

containing a powerful electric bulb burning continually. The shaft of the wind gage, mounted above the globe, passes into the globe, where it is attached to revolving opaque blades.

As the prevailing wind drives the cup shaped gage, the vanes rotate around the light bulb, producing flashes of varying duration, depending entirely upon the strength of the wind.



Road Roller Rides to Work on a Trailer

TO FACILITATE moving heavy road rollers from one job to another, the Board of Public Works of the city of Detroit has devised a trailer equipped with a special reinforced tailboard, up which the roller can be run under its own power. This trailer with its 10-ton load can be moved at eight miles an hour, while the roller makes but three on its own wheels.

Light Rapid Fire Gun Has Only 38 Parts

A NON-RECOIL submachine gun that can fire 1000 rounds of ball, shot, or slug cartridges in one minute and nine seconds, has been invented by John T. Thompson, a retired general of the United States Army.

The weapon consists of 38 parts, in contrast with the usual 200, and weighs 10 pounds. It can be fired in single shots or in "bursts" like the ordinary machine gun.



Firing the non-recoil gun with its butt held against the nose

Mounds of Earth Serve as Pipes for Coolies

ALTHOUGH coolies in India and South Africa cannot take their favorite water pipes with them when on the march, they find a satisfactory substitute in earth pipes constructed along the way.

In South Africa the pipe is built up on the ground surface by heaping a little mound of earth and making a small tunnel through it. The tobacco is placed at one end of the opening while the native, kneeling at the other, sucks in the smoke.

In Natal and Rajputana the pipe is a sunbaked tube of clay hollowed out in the shape of a cone.



How coolies make and use their strange earth pipes

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