Striped Boiler Gage to Prevent Explosion

MANY a boiler explosion has resulted from the fact that the fireman believed his boiler gage glas was ull when



in fast it was empty. To prevent this hazard there has been perfected a striped background for gage glasses that reveals at a glance whether the boilers are full or empty.

The lines as seen through the water in the glass are at right angles to those of the background, and the lines through the empty section of the glass are approximately the same at angle as those on the background.

The scheme was first developed for use in the Edison Lamp Works at Newark, N. J., where the interior of the fireroom is white.

New Camera "Gun" Serves as Important Weapon

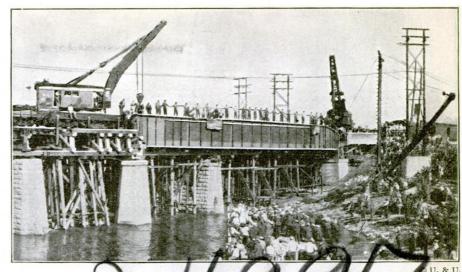


THE canera gun for photographing both movies and stills has attained a military dignity nearly equal to that of the most powerful war weapons. Both kinds of photographs are used extensively in determining the effect of smoke screens, shell fire, and aerial bombs, and for estimating the velocity of projectiles.

Chief photographer J. M. Hayme, of the U. S. S. Wright, is shown above with his odd looking navy model K-1 aerial camera, taking "movies" from a torpedo plane. This remarkable camera has a special 24-inch lens.

THE Editor will be glad to supply, wherever possible, the names and addresses of manufacturers of devices mentioned in this issue of POPULAR SCIENCE MONTHLY.

THE WORLD'S LARGEST BRIDGE GIRDER



WHILE motion-picture cameras clicked and hundreds of specutors cheered, the longest and heaviest steel bridge girder in the world was laid re-

cently as part of a railroad bridge at Rock Island on the Missisappi. This gian girder weighs 97 to a and is 114 feet long. Two powerful cranes lifted it.

DEUROPE BUILDING MOLDED HOUSES

BESET by a shortage of material and labor, Europe today is experimenting with an inexpensive method of building

houses by molding them of a cheap mixture of gr sand, an slag ravel. with a small propo rtion of cement This mixture is aid to equal majorry in durability, heat insulation, freedom from cracks, adherence of plaster, and nailing qualities. It is cast in molds made of sections that are fitted together in a few hours. The

windows and doors are cast with the walls. It is claimed that these molds can be used at least 30 times.



A molded house nearing completion. Note the roof construction

MOTOR SPEEDWAY ON FACTORY ROOF

above surrounding roofs of Turin, Paly, has been constructed the most ren arkable speedway three-quarte with steep b in the worldmile track, 70 feet wide nked turns aroun igh-powered ars, stripped y day at the to th etons, dash eve eed their roaring greates engines produce.

The track is used for testing the cars of a well-known Italian automobile manufacturing company Each chassis, when embled is tal driver arou s tak to th elevator d the ack at op speed ntil the stan ngineer con icting the with its perf t is satisfied hance.

The track of armored increte with a top dressing a asphalt. It consists of two long stretches and backed turns. Concrete walls five and ten feet high act as safeguards.

