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Miners Drill Coal with Compressed Air

ALWAYS there is a need for a compressor that will compress, wherever it may be. This machine is electrically driven and carries its feed cable with it.

Here it is shown at work in a coal-mine, supplying compressed air to a coal drill. It is mounted on a truck so that it may roll on the same track used for the mine locomotive.

A small air-tank built for high pressure is carried on the truck and the supply is furnished from this.

This compressed-air outfit is not only used in coal-mines, but for hammers, cement-guns, punches, etc.

Sucking Up Grain through a Big Pipe

THE manager of this grain-elevator has certainly got the right idea about unloading grain and moving it from one part of the grain-elevator to another. He uses the same principle as that employed by the vacuum cleaner.

Large vacuum pumps are connected to the big pipe shown in the center of the photograph. This carries grain away as fast as the workmen can keep it piled up at its mouth. Many hundred tons may be sucked away in a single day.

The suction type of conveyor also tends to eliminate dust and thereby helps to prevent explosions.

X-Raying Finger-Prints

FINGER-PRINT identification is based on the possibility of examining and comparing under the magnifying-glass the prints of an inked finger.

A specialist in the field of criminalistics, S. Nelken, of Berlin, has devised an important improvement in this art. X-ray pictures of the finger with the muscles and bones are obtained. This is done without the use of any chemicals that can obstruct the delicate furrows of the finger-lines. Moreover, the finger bone is shaped so characteristically as to aid identification.

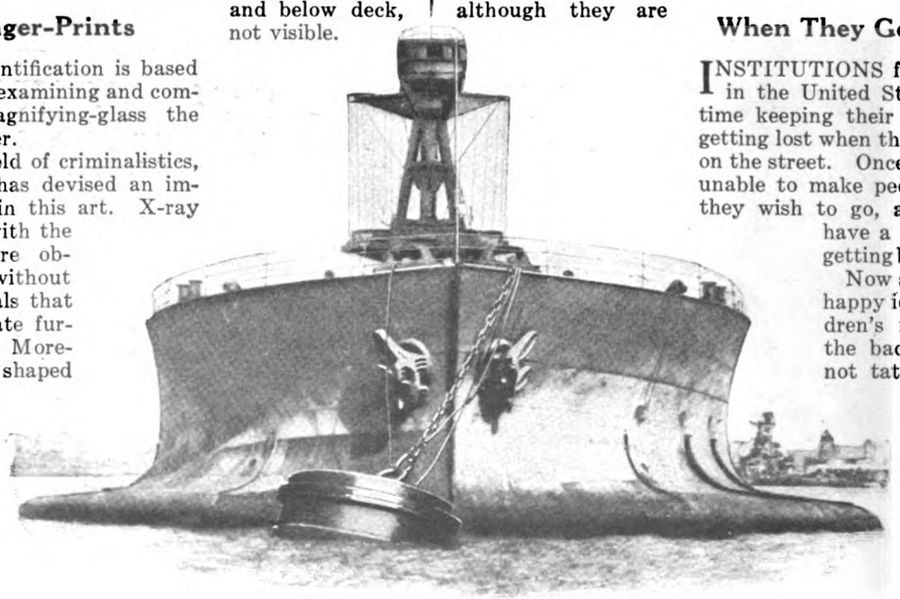
Whenever there is a certain likeness of finger lines, the bones are examined to see if further research would be necessary.

She Is a Mother to Busy Little Submarines

HERE'S a queer-looking craft. She was not built for speed—that is apparent in her bulkiness, which is anything but the grace of speed-craft. British naval experts designed her to watch over submarines and to carry their supplies.

The big steel "blisters" at each side are filled with water to ward off torpedo attacks. If a torpedo strikes these "blisters" and tears them open, no harm is done, since they are filled with water. Therefore the buoyancy of the vessel is not affected in the least.

The big vessel, lazy as she looks, is not strictly a fighter. Still, in the event of having to protect herself, she has a number of small guns mounted above and below deck, although they are not visible.



When They Got It in the Neck

INSTITUTIONS for the deaf and dumb in the United States have a very hard time keeping their juvenile charges from getting lost when they are permitted to go on the street. Once they are lost, they are unable to make people understand where they wish to go, and consequently they have a great deal of trouble in getting back to their institution.

Now some one has hit on the happy idea of writing the children's name and address on the back of the neck. It is not tattooed on—that would be too cruel and would savor too much of branding. An indelible pencil is used, the markings of which may be removed when they have served their purpose.