

RECENT TRIALS OF NAVAL ARMOR.

Not long since there was chronicled in our columns, and in those of the daily press, the failure of an 18 inch Harveized plate, which was tested by the government as a sample of the armor plate for the cruiser Indiana. This plate was 7 feet 6 inches wide, 16 feet long and varied in thickness from 18 inches to 8 inches, the latter thickness being only at the bottom edge, which, as the plates go on the ship, was to be under the water. The plate was the representative of 600 tons of armor. The attack was to have been made by a 13 inch rifle, but operations were commenced with a 12 inch rifle. The projectile from the latter penetrated the plate to a depth of 8 inches, breaking it into three pieces, while the projectile suffered hardly and injury. Although this proved the plate unable to stand the test, another shot was taken at what was left of the plate, the 13 inch rifle being employed.

This completely destroyed the plate, while the projectile itself was shattered to pieces. The test cost the Bethlehem Steel Works \$20,000, and, naturally, impaired confidence in the product of the manufacturers, so that when the time came to test sample plates to represent 600 tons of armor for the protection of the battleship Massachusetts, a reduction of the velocity of the projectile was pleaded for. But when the Carnegie Company, of Pittsburgh, offered to submit one of their own plates to the trial, the Bethlehem Company faced the encounter and submitted a 17 inch plate. The results obtained in the trial, which took place at Indian Head on June 12, were truly remarkable, and showed that a Harveized plate possesses the highest possible qualities. The same 12 inch rifle whose projectile had demolished the large Harveized plate in the preceding trial was used. The first shot struck the plate almost normally to its surface, penetrated it a distance of six inches without developing any cracks in the plate or bulging it in the rear. The Carpenter projectile was broken to pieces, small fragments flying 200 yards. A second projectile, fired at a higher velocity and caused to strike in another place, penetrated about ten inches, producing only one very fine crack, and the plate was left in condition for further service. Authorities in England have been much exercised over Harveized plates, as it has appeared that the United States government, by the use of this process, is producing armor superior to any other.

It is noted by authorities, however, that in England there have been very many great disappointments with thick armor plates. In the manufacture, the metal is subjected to enormous internal strains in the cooling process, which are liable to produce a plate under very high and irregular stresses. Such thick and enormous masses of metal, especially where they vary in thickness, inevitably cool irregularly, and then the use of subsequent hardening processes subjects them to still further strain. It is conceded that the system used by our government of testing sample plates selected from the lot by their own officers enables us to arrive at a much better judgment of the value of our armor than do any tests which have hitherto been applied abroad.

It causes a shock to the rational mind to see the amount of metallurgical skill which is devoted to the manufacture of armor plates and projectiles designed for offensive and defensive purposes only. The modern projectile of the finest steel turned to accurate shape is almost a work of art, yet its sole use is to destroy an armor plate as fine a piece of work as the shell in its own way, or worse yet, to destroy life. The above may sound like platitudes, but it is a strange spectacle to see the talents of the engineer devoted to destruction.

Tammany's Golden Goose.
Never was there a more conspicuous illustration than is now furnished in the city of New York of the classical fable regarding the goose that laid the golden egg. The law-breakers of the metropolis collectively constitute the goose. Perhaps it would be more nearly exact to say that the goose is their purchased immunity from punishment for law-breaking. Tammany Hall is the owner of the goose. The golden eggs come in the form of \$500 "indemnity" fees, \$50 monthly "protection" dues, \$10 "extra" toward men, \$100 "counsel" fees to Tammany district bosses in consideration of getting indictments placed on file, \$5 to "bait agents" for procuring straw bonds, and from these sums all the way up and down to \$10,000 gifts from a Mayor to the Tammany child's baby daughter on the pretense of the sun being a god-fatherly keepsake, and \$1 "tips" thrust into the hands of patrolmen to prevent their seeing the side doors of saloons that were open on Sunday.

The experience of France in the railway business is not particularly encouraging. The deficit on the general railway account this year is \$20,000,000, with a prospect according to the finance minister, that the future annual deficit will increase to \$30,000,000. This comes from the government guaranteeing dividends to the great railways on condition that they would construct a great network of short connecting lines. No country constitutionally governed ever yet went into railroading without piling up a monument of regrets for taxpayers.

Shame may restrain what law does not prohibit.—Seneca.

SHERIFF'S SALE.

Delinquent Tax List for 1891.

NOTICE is hereby given, that by virtue of a warrant issued out of the County Court of the State of Oregon, for Washington County, at the City of Hillsboro, on the 30th day of July, 1891, and to me directed, commanding me to collect the delinquent taxes for the year 1891, for the County of Washington, State of Oregon, and for want of personal property, I have levied upon and sold, with public auction, to the highest bidder, for cash, at the Court House, in the City of Hillsboro, on Monday the 30th day of July, 1891, the following described real property, situated in said County and State, or so much thereof as may be necessary to satisfy the taxes due for said year 1891, together with the costs and charges thereon.

Sale to commence at 10:30 a. m. of said day and to continue from day to day (Sunday excepted) until said land is sold, to-wit: Brown, W. 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