"The gan, or machine, discharges without report, and sends the ball three times the distance of the ordinary ritle or cannon, as the case may be. The British Government has of case may be. The British Government has or-fered the inventor £200,000 sterling, if he can enlarge his machine to discharge a sixty-four pound shot. This he is now doing, and informs his agent here he shall accomplish it. The Ras-sian Minister, at London, is auxious for the pa-tert, and has offered him his price; but he says to his founds of more me other major will

tert, and his offered him his price; hat he says to his friends, 'I mean no other nation shall have it, but England and my own country."

Province to his going to Europe, he offered the right to the Government of the U.S. at Washington. Experiments were made with one ounce and seven pointle curronates, before our mant and other officers, by order of the Secretary of State, which proves all I have related above, and to the entire satisfaction of those present. One of these "informal machines," placed upon the deek of a vessel, one of the Commodores remarked, "would sink a frights in three minutes." Such a constant descharge of balls, just as fast as they can be headeded and rolled in, with the accuracy with which they can be directed, must inevitably deswhich they can be directed, must inevitably destroy all beforeit.

INTERESTING SCIENTIFIC EXCEPTION - The Gorgon steam-frigate, lately arrived here from England, on her way to the beyont, has, we understand, been expressly sent out by the Admiralty on a scientific expedition to the Island of Cos. It would appear that the littlesh Vice-Consai of that Island has discovered the remeins of what is considered to be an uncient Greek city; and that he applied to the Home Government for the means of proscenting researches, which promise to be very interesting. The Gorgon has on board implements for execu Vating, and scientific instruments to facilitate the work. A good camera-obscure and photo-gramic chemicals have also down amplied, so that any inscription or statuary which may be brought to light will be photographed on the spot. The work, we are informed, will be carried on under the superintendence of the Vice-Conof The expedition, if it realise the expectathe separation, it treatise the expecta-some liga on some portion of the history of an-cient Greece. Cos is one of the islands of the Archipelago, Standed at no great distance from the coast of I six Ainor. The Gorgon left on the 13th for Sugram.—Malta Tanes, Averaber 18.

With a view of abraning more positive confirmation of the resistance afforded by the plates of iron which form the onter casing of our newof from which form one once easing of our new-ly-constructed floating battenes, a balkhood, consteen feet by twelve, has been erected in Woolwich Arsenal marshes, for the purpose of bolted together, so as to consolidate a depth of one foot eight inches, and faced with four sheets of rolled and hammered iron, full four inches The butt thus constructed was well se cured by a number of strong spurs, and fixed at an angle of eight degrees in the most appropriate locality, selected for the purpose, in the practising range in the vicinity of the Arsenal practising range in the vicinity of heing Lord Panmure expressed his intention of being present, as well as Sir B. Hawes and Mr. Peel. They were not, however, in attendance. Inde-Any were not, nowever, in attenuance. Inne-pendently of the members of the Select Come mitte of the Arsend who were present, wer-Rear-Adm. Sir George Sartorius, Capt. Craw-ford Caffin, C.B., Director-Gen of Natul Artif-lers, and newly-appointed Director-Gen. of Starses its Watte D.K. Assistant Surrayor of Stores; Mr. Watts. If N., Assistant Surveyor of the Navy; Col. Letroy, R. V.; Gen. Cator, R. A.; Capt. Younghushand, R. A.; Capt. Campbell, R. A.; Col. Anderson, L. H. A.; Prof. Wheat stone, F. R. S.; &c. From the importance attached to the experiment, a thorough test was ordered to be applied. Twenty-four rounds ordered to be applied. offered to be applied. Twenty-four rounds were successively fired from one of the beaviest gaus, a \$3-pounder, weighing 95 cwt., and charged with 16th of powder and an 5 inch shoe. The experiment at the commencement

was tested over a range of 600 yards, which, was subsequently reduced to 4ml yards. The off ce by the famer on the non coating was jot there is a bail, on New Year's Ede, under scarcely perceptible, except when a same, the the patropage of Mrs. Webset, the Ludy of the colled sheets, and then no further than sagility "Cot at Commanding," in the District. It skinning the surface in the manucliate spot was heed in Mr. Day's large building, recently strick. The nine wroughtsiron share were each occupied as "Horword's Hotel," but now undattened by the for a of tige contact, and fell to temphed. The spations Daining Room was destruck. The nine a rought-iron share were each flattened by the for x of the contact, and fell to the surface of the target. The cast non shors, being broken into fragments, also tell farmless-ly to the ground; the last, however, penetrated the iron coating, and remained partonly embed-ded in the woodwork. The tradit consequently rests thus:—Out of the twenty-tour experimental discharges twenty-one effected no damage, two fell wide of the mark, and one pierced the target.

Tim Zoyavis who used to entertain their comrades before Sebistopol with their theatrical tepresentations, having served out their time and received their discharge, are now perf an ing before the public generally. They have been lately acting at Nice, in the Amphicheatre Segurana, with much applacate.

By means of a machine invented by a French by means of a machine invented by a French artisan, lines are engraved so minute as to be undistinguishable, and almost imperceptible, to the naked eye. It is destined for the produc-tion of private marks in bank-notes, and it is capable of producing two hundred thousand different combinations of marate kalendoscopic line figures, only to be seen by the nid of a posterful microscope, yet berketly regular and dis-erful microscope, yet berketly regular and dis-tinct, and insusceptible of being mitated. At every turn of the tiny wheels which work it, the machine produces four enately new designs, exceedingly complicated, and quite different from one another.

In the wildest and most inaccessible part of the R as of Mull, Argylechire, a rocky cave may be observed, and "thereby hangs a tale." In this reluge for the destitute Allan Cameron, of Erracht, afterwards celebrated as General Sir A. Cameton, Colonel of the 79th Higalanders, once on a time found a shelter from the twoedged sword of Justice. The circumstances were as follows: In those "good old times" duciling was the rule, not the exception, eron having quarreled with a friend and neighbor, reversed the old practice, to wit, "a word and a blow." A rencontre took place, and his opponent died, "without benent of clergy."— Common report at the time affirmed that he took a "shabby airvantage of his enemy. After the affray the country became too hot to hold him, and he fled to the then seeleded retreat above-mentioned. Here he remained "in hiding 'until the great Peninsular war grew "fast Woolwich Arsenal marshes, for the purpose of carrying out some experiments connected therewith. The bulkhean was composed of solid limber, similar to those of a ship's hull, tranky bolted together, so as to consolidate, tranky bolted together, so as to consolidate. landers, or, as they were at first also styled. "Cameronian Volunteers"—a Reg. second to none in deeds of valor throughout the great contest, during the early years of the present century. At the battle of Fuentes his gallant son, Colonel Philip Cameron, fell in the arms of rictory, at the head of his brave Highlanders Another son, Col. Nathanel Cameron, survived the war, and leaving the Service settled in America. Sir Allan reacced a very advanced age, By his "last will and tenament" he bequeathed his belowal that the services the services. his beloved Reg. to his son!

> The British Government have placed the Retribution, steam frigate of 28 gais, at the dis-posal of the United States officers who wento New York. They are expected to arrive in the latter city in a few days, and the intention of the citizens of New York is to receive the officers of the Retribution with all possible distinction, in acknowledgement of the honor

THE RIFLES BALL .- The Rifle Corps organ ized here about a year ago, under the command teen show were of cast and more I wrought iron, left Captain Kingsmill, coveringed the citizens voted to the dancing, its walls were tastefully decorated with evergreens, interspersed with groups of arms, atranged as tropines, in each wandow. At the farthest end, immediately over the orchesits, a gravefully intuined V. R. Signette, bore witness to the localty of these "gal-lant sons of Mars."

> BUTTER ADULTERATED WITH FLINT-STONE .-Istounding as is the announcement at the head-Astromating as is the announcement at the neutring of this paragraph, it is nevertheless true.— Batter is adulterated with flint-stones. This heartless and wicked fraud is especially practised in the low knots of butter usually sold in large manufacturing towns to the poorer and industrious population. The flint-stones are industrious popuration. The flint-stones are ground and then chemically manipulated, until they are reduced into a soluble substance, which sknown by the denomination of "soluble silies." Who is the latter preparation is dissolved in water is becomes a soil gelatinous body, somewhat re-emitting strong jelly. This jelly is mixed to a considerable extent with butter of low quali-ty, to which fresh salt and coloring matter are added. The product of this villations adulter-ation is a compound which resembles a very good-looking dairy-made butter. But it has a compound the butter of the comnot the firmness or bright appearance of genu-ine butter, and is devoid of the richness and wholesome qualities of the latter. We have seen this gross adulteration at the laboratories of the Northern Analytical College, Sheffield, and we are credibly informed that Professor Calvert, of Manchester, has detected this fraud the subject, if it were only to compel the rend on their goods the real quality. We should then be edited by show-cards an-nouncing the tempting truths, as "Flint But-ter," "Turmeric Mustard," "Vitriol Vinegar," "Carrot Coffee," and "Chalk Sugar-plums."

Provention by Steam.—At the recent Annual Exhibition of the Royal Agricultural Society in England, a field locomotive (Mr. Boydell's) dragged seven plunghs, connected together in one frame, with considerable case and speed over undulating ground. The boiler, Engine, wheels, etc., in short, the whole locomotive, including an endless railway, on which it runs to wire it, beset for chaing an endiess ratiway, on which it runs to give in a broad firm bearing on the earth, weighs nine tons; and with steam at sixty pounds (about the usual pressure by the way, on Eng-lish locomotives, instead of 110, as with us,) works up to 12 horse power. The fuel used ways coat. Two takes weblittens also instead and Two other exhibitors also rivaled each other in drawing ploughs by stationary engines, employing 1-inch wire ropes for the purpose.— Auchors have to be placed on the opposite side of the field from the engine, and the ploughs on the acto from the engine, and the proughs were drawn back light by means of pulleys.—
One used for anchors simply heavily loaded waggons, with share-rinned wheels which cut into the ground, so as to offer great resistance to bains descend althous miles. to being dragged sidewise, while they were easily moved lengthwise along the side of the field as the ploughing progress d.

A Washington correspondent of the New York " Commercial Advertiser," alluding to a paragraph in a letter from Toronto, stating as a rumour, that the reciprocity treaty was to be abrogated by Government says:—" Far from this, every effort is to be unde in our negotia-tions with foreign Governments for the exten-sion of the psinciples of that treaty. It is prosion of the psineiples of that treaty. It is pro-posed to extend it to the trade with the British West India Islands, if that Le practicable, and to within from the Spanish Government some relaxation of the testrictive policy in re-gard to trade with Cuba and Porto Rico, and, if possible, an entire year artern for shown to the American officers of the Resolute and to obtain from the Spanish Government in England. Such interchanges of civility, some relaxation of the testrictive policy in rewet trust, will have the effect of promoting success kindly feelings between the two countries of the spanish comments of the testrictive policy in resistive, an entire new system of comments of the countries of the co cisi reciprocity.