ture of all English guns, and one which, although professedly discredited by most of the great powers in favor of steel or bronze, or some other system, is known to be at the present time extensively taken up by several of the leading European nations. The gun was designed by Mr. R.S. Fraser, the inventor of the system, and Depuy Assistant Superintendent of the Royal Gun Factories, and it is beyond doubt the most powerful piece of ordusince ever produced.

The projectiles with which it will be prov ed correspond in size, but not in shape, with the shot and shell with which it will be fired on service. They have been cast in the are great tolts of sold iron, each weighing 1300 pounds. They are fit headed, and are lilled with a great number of studs to fit the grooves of the rifling. Special rammers. spenges and other apperatus have been provided for the proof of the gun; a truck has been constructed to carry the shot with a special contrivance for lifting it to the mouth of the gun, and the Government m nutsciniers of ganiowder have even provided a special powder. The powder in is way, is a s remarkable as the gun. Each grain of it is a cube an inch and a hal! in dismeter, and the cartridge, which will be 250 pounds of this powder, will be a 1 rge olster about the size of an ordinary man. It is proposed to increase the powder charge it necessary to 300 pounds, but this, like the calibre of the gun and the weight of the shot, will abide the result of experi-

As-uning that the gun will stand the proof, which may be almost taken for grant ed it will probably attain a range of about 8 miles. It might therefore be relied upon if required, to send a shot or shell weighing more than half a ton completely over Lond n, from Hampstead-heath to Clapham Junction, or from Nottinghill to Poplar. The only anxiety remaining is with respect to the strength of the railwry by which the gun will be taken to the butts. The total weight of the gun and carriage is 130 tons. and although the bridge over the canal and other lines have been strengthened to meet the strain, it is not impossible that there is some weak point which may give way. Every precourion, however, has been taken to guard against such an unfortunate con ting ney. The short section of railway upon which heavy guns are now always fired at the butts is thought to be quite equal to the task before it, and the novelty of this method of discharging heavy arullery upon "field" carri ges will douotless be a matter of interest to the visitors expected to be present on Friday. This plan, which is at tended with many and great advantages. was invented about a year ago by Major Maitland, Royal Arullery, Assistant Superintendent of the Royal Gun Factories, who has, in conjunction with the late Superintendent, Gen. Campbell, been actively engreed to per ecting the many remarkable productions which have distinguished productions the Royal Gun Fictories for some years The proof projectiles have been fitted with crusher guiges to indicate the pressure of each discharge and the scientific method of measuring the velocity by means of electricity, which has been for some in proved scale. All the chiefs of the Army have been invited to witness the trial.

Emperor William has expressed the opinion that peace is more assured now than at any time during the twenty years preceding the consoidiation of the Empire.

The Voyage of the Arctic Steamer. "Pandora."

LONDON, Oct. 17.-The Arctic exploring steamer " Pandors" arrived at Portsmouth yesterday. She left Disco on the 7th of Aug. and Uppernavik on the 13th, crossing Melville Bay without mishap, for the usual fields of pack ice were not visible, and almost a clear sheet of water was found, At Corey islands no signs of the government explori g expedition were visible. Captain Young decided to steer for L neaster sound where he encountered the first ice floes With great difficulty the . Pandora's forced her way, despite the ice. She succeeded in traversing the entire length of Barrow Strait, reaching Beechy Island, August 25 She there found the yacht "Mary," which had been drawn up on the beach in 1:50 by Captain Ross. The yacht was still standing with her masts upright. The storehouse built for the benefit of the sailors or casta ways of ice found vessels was found in : state of terrible confusion The desurpetien of the stores was accomplished by polar bears, as tracks of these animals were visible in every direction. The head boards over the graves of Sir John Franklin's men buried there were still in a good state of preserva tion. On the 26th the "Pandora" steame for Peel Strait where she encountered vast fields of pack ice, which made the passage a most difficult and dangerous one. "Pandora" steadily worked her way on ward, and soon passed the farthest point reached by the "Fox" when McClintock was in search of Franklin relics. Soon after reaching that point the "Pandora" neared King Williams Land, thus navigating a sea which no ship ever traversed before, except, perhaps, those of Franklin. The "Pan steamed down the coast of Prince of Wales Land, and encountered most delicious The atmosphere was soft and refreshing, and the bitter cold of the Arctic zone replaced by warm air currents and an expanse of water. Intense excitement pre vailed among the officers and men of the expedition, as it was expected important results were at hand. On reaching Ran quette Island they saw the edge of a solid pack of ice, which extended across the strait from side to side in one unbroken expanse. This pack blocked the entrance to Bellot's Strait. The Pandora staid at this port until the 7th of Set tember, when, finding no further progress possible it was decided useless to go into winter quarter, and far The return hetter to return next year. journey was full of difficulties, as the ice was rapidly forming, and the pissage of the Pandora was a constant series of exciting scenes and narrow escapes from moving ice floes. Finally escoping through Peel Strain, the ice still rapidly forming and accumulating, the steamer at length reached Corey Islands in safety. From Melville Bay the homeward voyage was almost uneventful. Captain Young reports that from the preva lence of north winds there is abundant promise that Captain Nares will prove suc cessful. The Pondora only fost two topgallant yards and two jibbooms during the entire voyage .- (Special despatch to the New York Herald.

Military Telegraphs.

The most complete and extensive telegraph org nization is, according to the Augs burg Guzette, possessed by Prussia:

"Since the changes effected in 1873 seven parks have been established, each compris-

ing three division-the first destined to establish, in time of war, telegraphic communic tion on the most advanced line; the second to unite the headquarters with all the necessary points; the third to repair the conductors. The meterial of the first two divisions enables them to put up the wires for a length of hetween ten and twelse miles, to which the reserve brigade can add others ten miles long. It is only since 1856 that messures were taken in Prussis to organize a system of portable telegraps. This material was utilized in 1864 during the war with Denmark, and in 1866 in the war with Austria. During the aret com-paign it was composed of two divisions; in ti e second, of tour. It was auring the war of 1.66 that it wa shows what h Valuable services a military telegraph could render. The lesson then learned was immediately utilized, and when the war of 1-70 broke out the field telegreph was composed of twelve divisions, com uanded by a superior officer. The service, as at present constituand the battation of Pioperrs of the Guard and the 4th Battelion of Poincers in garri's son at Berlin or at Mageing supply the elements. The first furnishes seven divi-sions, the second five, each division consist-ing of a detachment of Pioneers of about ninety men, with three others of Engineers, seven telegraph employees, one other and fitty soldiers of the military train, and each park having thirteen wagons. E ch wagon carries the material for bying 41 miles of wire, besides 1.000 feet of cable, together with Morse's apparatus, with ten pile bat teries, for the establishment of stations. In Italy the military telegraph was first utilized on a grand scale during the operations against Aucona in .861. From Aucona communication was established in two days between the army and the fleet, and between the he dquarters and the various isolated corps, as well as between one and the other of those corps-and the whole united to the Itelian telegraphic system. But it was during the American War of Secession that the military telegraph, perhaps, played the most conspicuous part. During the space of three years the army taid upwords of 8,000 kilom-tres of wire on land and 160 kdometres of cable in the sea, It was during this war that it was shown how useful the military telegraph might be made to carry out daring projects, to effect sur prises, reconnaissances, requisitions, etc. operrting upon the flanks of the armies were aiways accompanied by an experienced teleg apaic operator, and important intelligence was thus frequently received by the leader of the band. On one occasion the Mayor of Cincinnati having tell graphed to a Federal general, encamped sixty miles dis tant, that General Morgan intended to attempt to take the city by a coup de main asked for his usustance. The despitch was however, intercepted, and Morg a hunself replied, in the name of the Federal general, that he was about to proceed to Ci icionati, but that fresh burses would be required for his artillety, and these he would expect to find at a certain place which he designated. The horses were despitched, and Morgan took possession of them and put them to his own cannon. At the end of the war, in the month of February, 1871 the Germans in France had, according to the Augsburg Guzette, 1.557 miles or telegraph, and ninety one stations in working o d r. graphic system at the end of February, 1811 best les the principal times centred near Paris, and the circula times found the capt' tal—embraced St. Quentin, Amiens, Rouen,