From this it is evident that the wrought fron must be greatly compressed by the cast fron after the first round, and that the statement in the foot-note at page 3 of Captain E. Palliver's Report cannot be accepted as representing a general fact, although it might be true under particular circumstances.

The result of long-continued fring would thus be to throw a gradually increasing strain on the cast fron, and when that reached its tenrile strength the gun would begin to crack from the inside; but inasmuch as the soft lining would prevent the penotration of the powder pressure into the crack, the crack would go on very gradually increasing, and wou I at instreach the outside and the gun would burst, but not with that explosive vice ices which it would have done but for the operation of the soft internal lining of wrought fron.

The gun would be a cheap gun, a safe gun, and a long enduring gun, but there I must stop. It would in time fall, but probably the time would be long, and the failure not attended with much danger.

But when we come to large guns and heavy powder pressures, I do not think we could trust to this system. We want a gun which will not burst at all, and which will last practically for ever, and for that I am convinced the fature lies with the gun cliber made of Sir Joseph Whitworth's mate-rail in live or six concentric rings properly proportioned, or better still in my opinion, in the wire-coiled gun which I have so long advocated, and which, as far as it has been tried, has given the most satisfactory results.

## Obitnary.

The death of Major G. F. Blackwood, commanding E Battery, B Brigade, Royal Horse Arillory, adds another mame to the roll of gallande, Royal Horse Arillory, adds another mame to the roll of gallande, Royal Horse Arillory, adds another mame to the roll of gallande, Royal Horse Arillory, adds another mame to the roll of gallander for the late Major William Blackwood, of the Bengal Army, and a grandson of the founder of the well-known publishing house of that name. His maternal grandfather was Brigadier G. F. Moore, for many years colonel of the 6th Bengal Navive Infantry, which in his days was a nursery of many officers who afterwards rose to high distinction in the service. George Blackwood was educated at the Edinburgh Aendemy, and afterwards passed at Addiscombe, which is a service of the Bengal Service. How may a service and the Bengal Service in made a choice of the Arthliery Panch of the Bengal Service. How may a service and the service of the Bengal Service. How we have a service and the service of the Bengal Service. How we have a service in the Bengal Service and was soon hurried out to India, where he served in the suppression of the Muthay with the Rohleund Movable Column under the command of Lieutenant-Colonel Wilkinson, 42nd Royal Highlanders. In this force Blackwood was cutrasted with the command of the Muthay with the Rohleund Movable Column under the command of Itenselven which he discharged from 1850 to 182 at Darelly and tiwallor. From November, 1827, to December, 1831. He received his capitaine, in November, 1827, and was selected for the command of the artillery in the Looshal excedition, under Brigadier-teneral Bourchier, C.B. Capitain Blackwood was present at the attacks on Tipai Muth, Kungning, and Talkoni and Brigadier-teneral Bourchier, who, in his dispatch did officers India he was a printed and published by the Government of India. His services in this expedition were rewarded by a brovet majority in September, 182. Brigade by the Government of India. His services in this expedition were

### COMPARATIVE COST.

whole militia force of 40,000 men!

# Relics of the Past.

A FIND OF OLD-TIME ARCHIVES AT THE KINGSTON BARRACKS.

Kingston, Nov. 19.—Mr. Geo. W. Newlands, while reconstructing the storehouse in the Tete-du-Pont barracks, came across some very ancient archives, some of which date back as far as 1818. One of them, dated 12th September, 1818, is a shipping bill of commissariat goods to Fort George, signed by E. Urquhart. The name of the boat upon which the goods were shipped was the Frontenae, and was sailed by James Mackenzie. Another is an order to E. P. Coffin, deputy commissary-general, for the removal of the 79th regiment from Kingston to Montreal. There were only one woman and three children in the regiment. This document is dated 1820. Another document is as follows:---

### " COMMISSARIAT OFFICE,

" Lachine, 14th July, 1821.

" One small batteau, manned by four Canadians, Antoine, Loiselle, guide, proceeded from this port to convey to Fort Wellington such of the settlers, with their families and baggage, as have been obliged from sickness on their way up to remain at Cascades or Cedars or Coteau du Lac, as well as pensioner Lane, with his wife and baggage, who were left by the party of the 76th Regiment. Upon their performing this service, and receiving such loading as will be appointed for them, they are to return to this port. Wages, thirty shillings per man for the

"John Finlay, D.C.G." (Signed,)

"The following persons are put on the batteau in charge of Antoine Loiselle:—Pensioner Lane, wife and child and baggage, on their way to Fort George per March route. Settler Andrew Climic, wife and eight children, on their way to Lanark settlement.

(Signed,) "J. Linguistary-General.

" Coteau du Lac, 17th July."

# Imperial Military News.

-The Moncriest principle of mounting guns on disappearing carriages, which allows the weapon to sink under cover of the parapet with the recoil, and rise to the firing position when loaded by the action of a counterpoise, is being extended to such of the British stations abroad as present defensive features suitable to the employment of the system, which is much more useful in some situations than in others. A number of these carriages have just been prepared at the Royal Arsenal, Woolwich, for conveyance to Bermula, and embarked in the steamship Solway, one of a new line of packets established for trading with Bermuda and Nassau.

-Yestorday the twenty-first official year of the Volunteer organisation was brought to a close, and, in accordance with the regulations, returns must be forwarded at once to the War Office by every regiment, setting forth the enrolled strength, number of efficients, &c. At the date of the last returns there were, out of 206,250 enrolled Yolunteers, no less than 197.575 officients.

Portsmouth.—The trials which have been made on The sum expended by Vanderbilt on his new house in Fifth ing guns by electricity have been deemed sufficiently salvenue, New York, is \$1,500,000—three times the amount tisfactory to warrant the introduction of the system in all the positive forms of the system in all the system in all the positive forms of the system in all the syst luse for firing broadsides by electricity.