is 1275 in.; length of forged breech, with rings, 1475; diameter of breech, 10 10 ii; over rings, 13 in.; number of r-fled grooves, di ameter 7 The pitch of the grooves commence s with one turn in 130 in, and finishes with the turn in 93 in. In describing the guar the inventor states that it has been built to burn the largest amount possible of powder in the shortest time, the charge being 1gtot ed in the centre. The method upon which the gun is constructed also provides again at its bursting under any pressure. In further describing the gun, it is only justice to Mr. M comber to use his own words. He

snys:"The gun is built up of dies of the o different kinds of wrought iron, increasing in density from the centre to the circum-ference. These dies are 'set' with a power ful steam hammer until the strain reach s the outside, and this strain is then for greater than can be given to the powder chamber on the explosion of the greatest charge it can be made to hold. After the gun has been built up in this naumer, heavy steel rings are forced on over the chumber at the breezh by a powerful hydraulie press (with the gun now for trial at Portsmouth the pressure used was 144,000%), the inner surface of the rings and the outer surface of the gun being accurately engine turne l. Thus, the metal, commencing on the insi le with the roltest of tough wrought iron, finishes on the outer surface with the best of wrought steel. Whatever the size of the gun, the weight of the power charge will be equal to half the weight of the projectile. The gun is a breechloader, closing after being loaded by two and a half turns of a three threadiscrew, forcing the fire tube into the centre of the charge, and closely sur-rounding the base of the powder chamber with the steal blades of the gass check. which entirely prevents any escape of g.s."

Such is the inventor's description of a gun which is certainly somewhat of a curiosity, and which will prove to be a groat success if the inventor's unticipations are realized. If the breech-loading arrangement would only work effectively when applied to a 50 ton gun, it would be invaluable on board our Yesterday, unfortunately, turret ships. after one shot had been fired from the Mar comber it was discovered that a flaw existed in one of the steel gass check plates, and any further firing under the circumstances was, therefore, deferred until a new plate has been obtained from London.

DOMINION OF CANADA.



MILITIA GENERAL ORDERS.

HEAD QUARTERS.

Ottawa, 27th March, 1874.

GENERAL ORDERS (7).

No. 1.

MILITIA STAFF.

To be Paymaster for Military District No. 5, from 21st March 1874:

Captain and Brevet Major Théophile Amy

The diameter of the grooved tube | rauld, Snellind Field Buttery vice Honorable Matthew Aylmer appointed Brigado

ACTIVE MILITIA.

PROVINCE OF ONTARIO.

St Catherine's Ballery of Garrison Artillery. To be 2nd Licutenant :

Sergeant William Wiley, G. S., vice Charles E Holmes whose resignation is here by accepted.

Iroquois Lattery of Garrison Artillery.

The Iroquois Buttery of Garrison Artillery having been mon-effective is hereby removed from the list of corps of the Active-Militia. Captain Alexander McDonell, in consideration of his length of service, is placed on the retired list retaining rank, but 1st Lieutenant William Miller and 2nd Lieutenant John McDonell are removed from the list of officers of the Active Militia.

1st Battalion, Governor General's Foot Guards

To be Lieutenant:

Ensign Alfred Hamlyn Todd, M. S., vice Philip T. Vankougnet left limits.

l'o be Ensign, provisionally:

George Major, Gentleman, vice Todd promoted.

To be Adjutant :

Captain John Walsh, V.B. vice Rhodes resigned.

2nd Battalion " The Queen's Own Rifles,"

To be Captain, from 27th: February, 1871: Lieutenant Thomas Dawson Delamere, M.S., vice Samuel Bruce II irman trans. ferred to the Provisional Battalion on service in Manitoba.

7th Battalian, " The London Light Infantry."

No 1 Company, London.

To be Captain, from 27th February, 1874. Lieutenant Thomas O'Brien, M, S, from No 7 Company, vice Gorman appointed | 65th "Battalion" or " Mount Royal Rifles" Adjulant.

To be Lieutenant, from 27th February, 1874. Ensign John Kylo O'Connor, V. B., vice William Hill Nash transferred to the Provisional Battalion on service in Manitoba.

To be Ensign, provisionally:

Charles B. Hunt, Gentleman, vice O'Con nor promoted.

No 7 Company, London.

To be Lieutenant, from 27th February, 1874: Ensign Thomas Peel, V.B., from No. 2 Company, vice O'Brien transferred to Ensign William Clapperton; No. 1 Company.

13th Ballali n of Infantry, Hamilton.

Erralum .- In GeneralOrders (6) 13 March, 1874, read "John Stoneman," instead of "John Honeman."

32nd " Bruce" Battation of Infantry.

No 1 Company Southampton.

Adverting to General Orders (6) 13th March 1874, read, "vice Alexander Sinclair who, as a special case in consideration of his length of service, is permitted to retire with the honorary rank of Captain," instead of, "vice Alexander Sinchir whose resignation is hereby accepted."

34th "Ontario" Battalion of Infantry To be surgeon:

Francis Rae, Esquire, M.D., vice II. Warten decoased.

Configuation of Rank.

Ensign John R. Cunningham, M.S., No. 8 Company 16th Bar slion, from date of appointment : 28th May 1869, he being at that time the holder of a Military School Certifi-

PROVINCE OF QUEBEC.

Muntireal Brigade of Garrison Artillery.

To be 2nd Lieutenant, provisionally:

John William Molson, Gentleman, vice Taylor promoted.

1st Buttalion of Rifles. or "Prince of Wales" Regiment.

The resignations of Captain John Robinson and Lieutenant William de Courcy Harnett are hereby accepted.

51 h " Richmond" Battalion of Infantry.

No. 4 Company, Brompton and Windsor. To be Captain:

2nd Licutenant William Bernard Boyd, V. B., from Engineer Company G.T.R.B., vice W. Gordon Mack who is hereby permitted to retire retaining rank.

The resignation of Quarter Master Jean Baptiste Emond is hereby accepted,

Non-expressive Corps.

The following corps having become noneffective are hereby removed from the list of corps of the Active Militia, and the offi. cers thereof, below named, are also remove ed from the list of cilicers of the Active Militin:

Miria Infantry Company-Captain F. Solomon Cyr, Lieutenant John Green, and

Matapedica Infantry Company-Captain