

great hospitality the I.A.C. received when in America, and expressed the pleasure it now gave his comrades and himself to be the hosts of their visitors from Massachusetts. Major Frost briefly acknowledged the compliment. Subsequently the team proceeded to the Empire Theatre, when seats had been reserved for them in the grand circle, and they were very hospitably received by the management. On Thursday evening Major Frost and the team gave their first "At Home," and a large number of military and civilian friends accepted the invitation.

CANADIANS VS. CAMBRIDGESHIRE.

The following details of the match shot at Cambridge, the result of which was cabled at the time, appears in the *Volunteer Record* of the 13th inst :

"The Canadian team, which came to England a fortnight ago to take part in the Wimbledon meeting, have been encamped on the University range at Cambridge, previous to taking up their quarters on Wimbledon Common. During their stay at Cambridge a match was arranged between the visitors and the local companies of volunteers. The disparity between the sides at the finish was 101 points; and the respective totals were, Canadians, 906; Cambridge, 805 :

CANADIANS.		CAMBRIDGE.	
Staff-Sergt. Mitchell.....	97	Pte. Warrington.....	85
Capt. Rogers.....	96	Pte. Fordham.....	84
Staff-Sergt. Ogg.....	92	Lieut. Rhodes.....	84
Sergt. Rolston.....	91	Lc.-Sergt. Benton.....	81
Staff-Sergt. McVittie.....	91	Pte. Pull.....	81
Staff-Sergt. Ashall.....	90	Lc.-Corp. Shallow.....	80
Corp. Crowe.....	89	Lc.-Sergt. Reynolds.....	80
Major Weston.....	88	Pte. Dellar.....	78
Pte. Armstrong.....	86	Pte. Hewish.....	76
Sergt. Horsey.....	86	Sergt.-Major Adams.....	73
Total.....	906	Total.....	805

Major Godsal's New Rifle.

A repeating rifle action on an entirely new principle has been invented and designed by Major P. T. Godsal, 4th (Eton College) V. B. Oxfordshire Light Infantry, late Instructor of Musketry 52nd Light Infantry. It seems to hold an intermediate position between what are known as the bolt and block systems, and it is claimed for it that it combines all the strength and soundness of the former with the repeating power of the latter, and that it is the simplest action and cheapest to manufacture that has yet been produced. The main advantage in the bolt system is that travelling motion which enables it to be used as a repeater, and, having this motion, the Godsal rifle would be taken by a superficial observer to be a "frock-locking bolt." A closer examination, however, reveals that it is better entitled to be called a "travelling block action," since in all its most essential features it resembles the block systems. Instead of a bolt six inches long the obturator in the Godsal action consists of a solid steel cylinder less than one inch long. This locks by means of three lugs into the breech, and it is held, when unlocked, by a hollow carrier containing the main spring and striker, which travels on a slide or bar, which bar forms a rearward continuation of the lower lug of the breech, and forms a rigid connection for the wood of the butt. Thus the long heavy bolt and the corresponding long trough or breech shoe of the bolt action is dispensed with altogether.

Simple as the Godsal action is, it would be useless in the space at our disposal to attempt to give a complete description of such a novel invention; but after its extreme lightness and the great strength of its treble-grip, we should not omit to notice the extractor. This is of the well known block action type. The peculiarity of it is that it has a long rod projecting butt-wards from the claw, and lying alongside the above mentioned stock-bar parallel with the axis of the barrel. As the carrier is drawn back it strikes at the right moment against a projection on this rod, and so knocks out the cartridge. It is well known that a knock or tap is better than a wrench, for breaking the adhesion of a sticking cartridge, and in point of fact it is said that the pressure of the end of the little finger throwing back the carrier never fails to extract a cartridge with the Godsal action. On the contrary, with a bolt action, a spring claw snaps over the rim of the cartridge, and to extract it a severe wrench, often requiring the whole force and weight of the right hand, is necessary, and the action is jammed shut until the cartridge moves.

As at present exhibited, the Godsal rifle is fitted with a modification of the present Government magazine, which is attached in a simple manner to the left side of the action. We understand that the Godsal rifle has been not only invented but entirely designed by Major Godsal himself, but the workmanship is by Messrs. W. & C. Scott & Son, of the Premier Gun Works, Birmingham, and the inventor bears high testimony to the admirable manner in which his designs have been carried out. It should be born in mind that the solitary specimen of the Godsal repeating rifle at present in existence is a first model; and it is not often

(if ever) that first models of completely new guns are brought forward to challenge public criticism. We can readily believe that the inventor has several improvements and developments in store for the next edition.

Unfortunately this invention was too late for trial before the Small-arms Committee, as the new bolt action which we should much like to see exhibited at Wimbledon alongside of Major Godsal's action, had already been decided on.—*Volunteer Service Gazette.*

Dominion Artillery Association.

Field Battery Firing Competition.

The above competition has been arranged to take place during the last week in September. The following will be the order of firing:—

Tuesday, 24th September—Montreal, Toronto and Durham.

Wednesday, 25th September—Hamilton, London and Richmond.

Thursday, 26th September—Ottawa, No. 1 Bty. 1st Bde. and No. 2 Bty. 1st Bde.

Friday, 27th September—Quebec, Shefford and Welland Canal.

Saturday, 28th September—Kingston and Gananoque.

Officers commanding batteries will be good enough to inform Major Crawford Lindsay, Garrison Club, Quebec, camp Quarter Master, as to the hour of their arrival, number of officers, and probable duration of stay in camp.

Arrangements have been made with the Grand Trunk Railway to take detachments from headquarters of batteries to Kingston and return for a single fare. Certificates will be issued by the Secretary of the Dominion Artillery Association, for this purpose, which must be attested by ticket agent at point of departure, and by the Secretary during the practice at Kingston.

Batteries desiring to travel by a different route will be allowed a single first-class fare, as above, to cover expenses.

D. T. IRWIN, Lt.-Colonel,
Inspector of Artillery.

Ottawa, 19th July, 1889.

Garrison Artillery Shifting Ordnance Competitions, Island of Orleans, Quebec.

COMPETITION A.—Open to one officer or N. C. officer as No. 1, and 18 N. C. officers or gunners, selected from competing detachments of brigades. Independent batteries wishing to enter for this competition will be required to include their firing detachment in that for shifting ordnance—but no camp allowance can be paid for other than the firing detachments.

A 32-pr. S. B. gun to be dismantled down the rear on watered skids clear of the platform, taken round a post 30 feet in rear of the platform, and mounted on the carriage by parbuckling up the side; the gun carriage is not to be moved after the gun is dismantled until the latter is mounted again, and then gun and carriage to be left in line of fire, stores clear of platform. Mounting and dismantling to be in accordance with Drill Manual and stores as therein detailed for both operations. From two to five seconds may be added to the time at the discretion of the umpire, for each mistake at drill or other irregularity. Umpire's decision to be final. Prizes will be awarded to the detachments performing the operations in the shortest total time.

COMPETITION B—GO AS YOU PLEASE.—The details of this shift will be made known on the ground.

The following is a list of the stores as embraced in the details for both operations—dismounting and mounting:—

Parbuckle ropes.....	2	Scotches of sorts.....	12	
Drag-ropes, heavy.....	2	Skids, fir, 14 ft. x 8 in. x 8 in. . .	2	
Handspikes, common, 6 ft.....	8	Skids, oak {	3 ft. x 9 in. x 6 in. . .	2
Lashings, 1 1/2 in., 3 fathoms each	4		3 ft. x 6 in. x 6 in. . .	2
Luff tackles.....	2		3 ft. x 4 in. x 4 in. . .	3
Planks {	Oak half, 4 ft. x 12 in. x 3 in.	2	Selvagees.....	2
	Fir whole, 10 x 17 x 3.....	2	Water bucket and brush.....	1
Roller ground, 3 ft. x 6 in.....	1			

DATES OF FIRING—The following will be the order of firing if nothing unforeseen occurs to prevent it:—

Monday, 9th September—From Quebec, No. 2 Battery.; Levis, No. 1 Battery; N. B. Bde., 2 batteries.

Tuesday—From N. B. Bde., 1 battery; Montreal Bde., 3 batteries.

Wednesday—From Montreal Bde., 3 batteries; Halifax Bde., 1 battery.

Thursday—From Halifax Bde., 3 batteries; Yarmouth Battery.

Friday—Cobourg Battery; Digby Battery; Quebec Battery; Levis, No. 2 Battery.

By order,

J. B. DONALDSON, Captain,
Secretary.

Ottawa, 17th July, 1889.