

## COL. CANTLEY BACK FROM ZONE OF FIRE

### Canadian Shell Expert Visited General Alderson's Headquarters--Were Evacuated Under Fire

Col. T. Cantley, New Glasgow, N.S., did not know, unless it was due to the fact that the owner's wife was a German lady, and they perhaps had some hope of occupying it in the near future, the line begin on the Yser, about a mile back.

#### General Had to Evacuate.

The situation, however, was now getting too hot, and it was thought advisable to move the headquarters, which, as a matter of fact, was done during that night. The boom of the guns here was magnificent--like the roar of a half dozen thunderstorms in progress at one time. Back of this was the quick bark of the French 'soixante-quizes' and the Canadian eighteen and sixty-pounders.

#### For Emergency Use.

"One shell bursting in the hedge nearby the staff officer suggested that we go and see the retiring dug-out, which had been prepared for use in case of an emergency. Should they be shelled out of the chateau, the staff could retire by a communicating trench from the rear of the chateau to the dugout and in this way to the trench in the rear. This dugout was simply an enlarged trench with right angle chambers, roofed over first with round timber covered with sandbags, this in turn covered with earth, on which were placed sods and trees. The place was fairly comfortable and capable of defence against everything save heavy howitzer fire.

#### Canadian Guns Busy.

"A little later we left the chateau, reaching our car at the junction of the road. To do this we passed in front of a whole battery of Canadian guns screamed behind a hedge. These were so skilfully masked by the hedge in front, and by the straw stacks in the rear, that they were practically invisible from the rear, front or overhead.

#### War Will be Long.

"My present conviction," said Col. Cantley, "is that as yet the war has only well started. If it can be brought to a satisfactory end within fifteen or eighteen months, it is about as much as I look for. This I say, while at the same time, I have no shadow of doubt as to our ultimately bringing the war to a successful conclusion, which of necessity means the complete crushing of Germany, so that for the remaining years of this century, at least, she cannot be in any degree a military power in Europe. Following the surrender of Germany there must be many changes in the map of Europe."

### Cause of Explosion Remains Mystery

Seattle, Wash., June 5.--Police and private detectives employed by the Russian government to guard vessels loading munitions of war for Russia were busy today endeavoring to learn the cause of the explosion Sunday morning of 15 tons of dynamite aboard a scow anchored in the bay. Except for the statement of private detectives that for two weeks they have been watching for two men who it is alleged were coming to Puget Sound to destroy ammunition carriers, there was little for the police to work on.

The scow was blown into fragments and no trace has been found of a watchman employed Saturday to guard the dynamite over-night.

While detectives were engaged in seeking to determine the cause of the explosion, many workmen began replacing 300 plate glass windows in the Seattle business district shattered by the explosion. The damage from this source was estimated at \$40,000, while damage to several wooden buildings on the waterfront nearest the explosion, added \$10,000 to the loss.

#### Effect of War

The statement is made by Dr. C. Schroeder, in Stahl und Eisen, that the Germans now hold control of about 40 per cent. of the aggregate industrial activity of France. These figures are based upon the percentage of steam plants under German control. It is claimed that Germany controls 68.8 per cent. of the coal, 73.3 per cent. of the coke, 90 per cent. of the iron ore, 85.7 per cent. of the pig iron, and 78 per cent. of the steel ingots.

## Music of Shell Fire

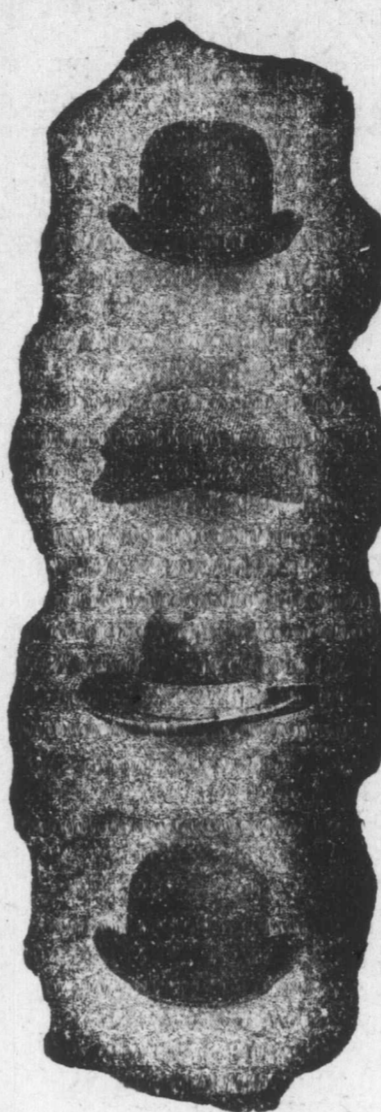
The first time, doubtless, that a keenly sensitive musical ear was ever found to be of practical service in battle was when Fritz Kreisler, the Austrian violinist, discovered that he could place the enemy's guns by the varying tones of the shells as they screamed over his head. His attention was first attracted by the difference between the sounds of the Austrian and the Russian shells passing above him. He then found out that a shell on the first, or ascending, half of its curving flight made a dull whine with a falling cadence, which changed to a shrill sounding with a rising cadence on the descending curve. Finally he found he could locate by the sound and the highest point in the curve of flight. With this knowledge the expert Austrian artillerymen were enabled to locate the Russian batteries. Kreisler himself tells the story in his recently published book, "Four Weeks in the Trenches: the War-Story of a Violinist." He writes:

"My ear, accustomed to differentiate sounds of all kinds, had some time ago, while we still advanced, noted a remarkable discrepancy in the peculiar whine produced by the different shells in their flight through the air as they passed over our heads, some sounding shrill, with a rising tendency, and the others rather dull, with a falling cadence. A short observation revealed the fact that the passing of a dull-sounding shell was invariably preceded by a flash from one of our own cannon in the rear on the hill, which conclusively proved it to be an Austrian shell. It must be understood that as we were advancing between the positions of the Austrian and Russian artillery, both kinds of shells were passing over our heads. As we advanced, the difference increased again more and more until, on the hill itself, it was very marked. After our trench was finished I crawled on the top of the hill until I could make out the flash of the Russian guns on the opposite heights and, by timing flash and actual passing of the shell, found to my astonishment that now the Russian missiles had

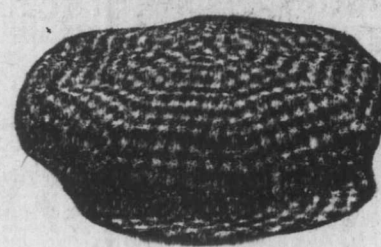
become dull, while, on the other hand, the shrill shell was invariably heralded by a flash from one of our guns, now far in the rear. What had happened was this: Every shell describes in its course a parabolic line, with the first half of the curve being ascending and the second one descending. Apparently in the first half of its curve, that is, its course while ascending, the shell produced a dull whine accompanied by a falling cadence, which changes to a rising shrill as soon as the acme has been reached and the curve points downward again. The acme for both kinds of shells naturally was exactly the half distance between the Russian and Austrian artillery, and this was the point where I had noticed that the difference was the least marked. A few days later, in talking over my observation with an artillery officer, I was told the fact was known that the shells sounded different going up than when coming down, but this knowledge was not used for practical purposes. When I told him that I could actually determine by the sound the exact place where a shell coming from opposing batteries was reaching its acme, he thought this would be of great value in a case where the position of the opposing battery was hidden and thus could be located. He apparently spoke to his command or about me, for a few days later I was sent on reconnoitering tour, with the object of marking on the map the exact spot where I thought the hostile shells were reaching their acme, and it was later on reported to me that I had succeeded in giving to our batteries the almost exact range of the Russian guns. I have gone into this matter at some length, because it is the only instance where my musical ear was of value during my service."

The variation in tone may be accounted for on the general principle that the pitch of a sound from an approaching source is always raised slightly, while that of one from a receding source is flatted. The pitch of a locomotive-whistle, flatted appreciably as the locomotive passes the listener. So, as a shell rises away from the earth, its tone rises, and as it approaches earth again, the tone is sharpened.--Literary Digest.

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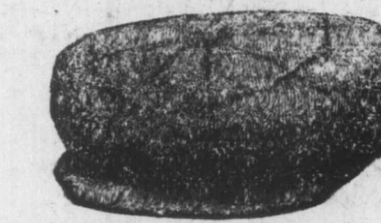


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