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Subscribe for THE DISPATCH.

FIRING A BIG GUN.

The Frightful Force Generated by the
Explosion.

Not one man in 10,000 has a clear idea of just what happens when a big cannon is fired. The physical manifestations are numerous. Even professors of chemistry and physics are stumped when they want to differentiate all the gases set loose and the peculiar effects they induce. The puff of whitish smoke, the flash of fire, the dim image of the flying projectile, the roar and the recoil are all familiar, but back of all this is a complex mass of phenomena most bewildering to the mind of any but an artillery expert.

First, the cubes, disks, hexagons or irregular lumps of powder are chemically transformed into a powerful, expanding gas the instant the firing takes place. Then there are innumerable byproducts that even chemists do not understand. It has been calculated that only about 43 per cent. by weight of the powder is converted by the explosion into gas. The remaining 75 per cent. becomes a liquid the moment of explosion, and on solidifying becomes potassium sulphate, potassium carbonate and potassium sulphide. A great many other combinations take place, and various solids are formed which have never been successfully analyzed.

The ordinary charges placed in the 12 inch guns of the United States warships during this complicated chemical transformation exert a pressure on the walls of the cannon of about 43 tons to the square inch. This force serves to start the projectile and develop a speed of 2,019 feet per second by the time the shot reaches the muzzle of the cannon. Up to this stage of the explosion the chemical action has gone on in perfect silence. The tremendous report which plays such havoc with the nerves of the gunners is not caused by the explosion itself. But as the projectile emerges from the muzzle it leaves behind it a vacuum in the barrel of the gun and the report is caused by the air in its rush to fill up this empty space.

The forces exerted by these gases in expanding seem to radiate in all directions from the cannon, as ripples are caused by dropping a pebble in a pool of still water. As a matter of fact, it has been discovered that these lines of forces are exceedingly complicated affairs and play very queer pranks about the cannon. As a result, few people know just which is the safest or most dangerous position for a gunner to take beside his gun. The center of disturbance at the moment of explosion is the mouth of the gun. In the case of the great 13 inch gun on our monitors a position back of the gun is much easier than one near the muzzle.

In addition to this force there is an immense pressure exerted on the sides of the cannon, so that another distinct series of shocks also radiates outward from the barrel of the gun. These are in turn more or less compensated by the forces of the air opposing them as it rushes into the mouth of the cannon when the projectile leaves it. As a result of all these forces the atmosphere is, of course, violently disturbed. Although no projectile strikes the gunner, who must stand by, it will be seen that the air is full of missiles in the form of invisible lines of force or vibrations which bombard, as it were, every part of the gunner's body at the same time.

An examination and analysis of the effect produced upon the human system and the mind by the firing of a cannon is most engrossing. Men generally accounted courageous tremble violently in their knees, others feel nauseated, some have severe headaches, a few have had their ear drums split or the action of the heart affected.

Take the vital organ, the heart first. In the space between the right auricle and ventricle are a set of fine, threadlike cords called tendinae. The concussion makes them tremble like timbers in a building when there is an earthquake. In a weak man the chamber of the heart is left open for an instant, the opening and closing springs lose their control, the heart shakes, possibly the chordae tendinae are snapped, contraction or dilation of the organ ensues and in some instances death follows.

Deafness induced by an explosion may be traced to the sudden pressure upon the inner orifice of the ear and the tremendous vibration set up. The thin, transparent, fairly bright membrane called the drum of the ear is burst, like a piece of tissue paper held taut and forcibly blown upon, a temporary disturbance of the mind occurs and the sufferer becomes dizzy.

When the knees tremble, it is due to the nervous shock produced in the cerebellum. All the nerves and muscles are thrown into atonic contractions and relaxations and the knees appear to give way.

Nausea is also caused by the physiological change that takes place in the brain. There is a pressure of blood there, and the stomach responding, tries to empty itself.

The whole nervous system, which resembles a mass of fibrous roots running all over the body, is affected when a cannon as large as an 8 inch gun is fired in close proximity.

Other outward manifestations occur when a gun goes off. For instance, clothes may be torn or a man even knocked down by the



Dr. A. W. Chase Tells a Friend That Eighty
Out of Every Hundred of Humanity are
Afflicted by Kidney and Liver Troubles.

Dr. Chase in his wisdom foresaw the need there would be for so grand a medicine as Dr. Chase's Kidney-Liver Pills, and so universally have they become known and used that go where you will round the globe, you'll be able to buy them.

They are a pleasant medicine, effective, quick to act, mild to use, but powerful in healing. For Constipation, Biliousness, Stomach Disorders, Bright's Disease, Diabetes, Urinary Troubles, Rheumatism, Skin Eruptions, Pimples, Impure Blood, they are specific.

None genuine but those having the signature and head-cut of Dr. A. W. Chase. Beware of counterfeits.

THOS. MILLER, Esq.,

MERCHANT, LUCKNOW, ONT.

Cured of Serious Stomach Troubles. Here
is What He Says:

I was troubled for twenty years with acute stomach trouble and constipation, and had tried almost everything I could hear of, but got no relief. Dr. Chase's Kidney-Liver Pills were recommended to me. The first dose I took gave me relief. I found them to be the thing I had been looking for. They have cured me.

THOMAS MILLER.

concussion. At the battle of the Yalu, captain McGiffin who was standing near a 6 inch gun, had his trousers torn into ribbons on one leg and a long rent in the other, his uniform was as full of holes as a moth eaten jacket, and he was nearly blinded and stunned.

CHAPTER VIII.

STOMACH DANGER SIGNALS.

"Place Your Faith on Such Preparations as Dr. Von Stan's Pineapple Tablets" Dr. Allen's Article in the American Journal of Health.

1. The slightest functional disturbance of the stomach will derange more or less the whole system.
2. A little gas, a little fermentation, insignificant signs perhaps.
3. But they're the first intimation of weakness in the digestive organs.
4. Danger signals of what will follow if neglected—
5. Dr. Von Stan's Pine Apple Tablets, stimulate digestion—they increase the flow of gastric juice—
6. They act directly on the nerves and have proved themselves wonderfully beneficial in most chronic cases.
7. The American Journal of Health in a recent issue says—
8. "Place faith only in such preparations as Dr. Von Stan's Pine Apple Tablets as a cure for Dyspepsia, sour stomach—
9. Indigestion—sick headache—flatulency—and catarrh of the stomach.
10. Their merits have been searchingly investigated—indisputably proved—and most cheerfully do we acknowledge the same." 35cts. a box—60 Tablets. Free sample at Garden Bros.

Such a fundamental question in literature as the following should not long remain unanswered. "It beats me," he said, as he laid down his newspaper thoughtfully. "I dunno's I ever thought of it afore, but now that it dose come ter my mind, it certainly beats me." "What air ye talking about?" asked his wife, anxiously. "Literatoor" he answered. "Course we've seen it showed up in the newspapers time and ag'in how all an editor duz is ter set down with a pot o' past an' a pair o' scissors, an' cut out things to put in'er 'is paper." "Certainly, I don't see nothin' so beathin' 'bout that." "But this the question: Some feller hez ter git them pieces upin the first place. It never struck me afore, but I'am blest ef I wouldn't like ter know who the feller is that starts in an' gits up them there things fur the editors to cut 'em out!"

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or excess. Mental Worry, Excessive use of Tobacco
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of price, one package \$1. six, \$5. One will please,
six will cure. Pamphlets free to any address.
The Wood Company, Windsor Ont.

Wood's Phosphodine is sold in Woodstock by
Garden Bros. Druggists.



"It's the devil for any one to tell me a secret,
for it is sure to come out in print."—HAZLITT.

It will be a long time before Woodstock will quite recover her good name, after the scenes at the polling booths on election day. It certainly was Bedlam let loose. As I wandered among the crowds I was particularly struck by the violent swearing and apparently silly use of oaths. If it be a sin to take the name of the Lord in vain, there were many sinners that day. Of course we will all cuss at times. There is a story of a much respected old Woodstocker, who hearing some boys swearing beneath his window, put his head out and shouted 'Stop your d—m swearing out there.' A good deal of the swearing is a thoughtless force of habit. I am reminded of a verse that describes a good many of those who took part actively in the late election,—whether as voters only or in more prominent positions:—

I am a man of war and might
And know this much that I can fight
Whether I'm in the wrong or right,
Devoutly.

No woman under Heaven I fear
New oaths I can exactly swear.

Now that the election is over, a decent man like myself has a chance to sit quietly in the retreat of his cellar and muse on the miserableness of humanity. I very much doubt if the thing we call manhood suffrage has justified itself. Perhaps the thing we call by the name of manhood, might better, in many cases, be called brutehood suffrage. Real manhood ought always to vote. But the careless, irresponsible, weak minded, whiskified, bleary eyed thing that bears the name and the exterior semblance of man, who takes a few drinks and a few dollars and is led to the voting booth like a lamb to the slaughter, this wretch ought to be chloroformed into the sleep that knows no waking. Let him die easily by all means; he has not deserved punishment but only extinction. He should not live to propagate his kind, to bring into the world other invertebrate creatures who will be the weak and willing tools of every man who for the time being cares to place his spirit upon them. The man who leads these fellows to the poll, who gives them drinks and money, has at least character to recommend him, but the man he leads has nothing but a hand and a throat, and a monkey has these.

THE IMP.

NEVER RETURNED.

Kidney Disease Permanently Cured
by Dodd's Kidney Pills.

Mr. Samuel Locke, of Jordan Bay, N. S.,
Tells the Story—He Suffered for Years.
Without Relief—Then he Used
Dodd's Kidney Pills and was
Cured.

JORDAN BAY, N. S., Feb. 27.—If ever there was a clear case of Kidney Disease being utterly and absolutely wiped out of the human system, that case was Mr. Samuel Locke's.

Mr. Locke lives at Jordan Bay, and the citizens of that place all know him well and favorably. They all know that he endured the greatest agony from diseased Kidneys.

The newspapers published accounts of his case; different physicians undertook to cure him, but they all failed.

Day by day his condition grew worse, and his sufferings increased. He used various remedies, each of which was said by its manufacturers, to be a sure cure. Yet these failed as the doctors had failed.

Finally, when it seemed as if every effort had been exhausted in vain, Mr. Locke was induced to try Dodd's Kidney Pills.

Soon after he had taken his first dose of this medicine he felt a slight change for the better. Every day this change grew more noticeable to both himself and his family, and at length, Mr. Locke was well again—in sound health, and robust strength, able to work, to eat, to sleep, to enjoy life, as well and as heartily as he ever did.

There cannot be a particle of doubt that Dodd's Kidney Pills are the only effective Kidney Medicine known today. It has been proved thousands of times. Bright's Disease, Diabetes, Rheumatism, Lumbago, Diseases of Women, and all other Kidney Complaints yield to them.

Dodd's Kidney Pills are sold by all druggists; fifty cents a box, six boxes \$2.50; or sent, on receipt of price by The Dods Medicine Co. Limited, Toronto, Ont.

"How did you know, Columbus?" asked one of the sages of Spain, "that there was land on the other side of the globe?" "It was simple enough," said Columbus. "I knew that the earth revolved, and I saw that there wasn't enough land on this side to go round! What other conclusion could a logical mind reach?"

Doctors Testify.

There's strong testimony by eminent physicians of wonderful cures made by Dr. Chase's Family Remedies—particularly Dr. Chase's Ointment.

**TOO WEAK
TO
...SEW...**

An Ottawa Lady Relates Her
Experience for Benefit
of Others.

Mrs. William A. Holmes, 530 Concession St., Ottawa, Ont., testifies as follows: "For some years past I was greatly troubled with weakness both of the nerves and heart. My heart would beat very irregularly, sometimes throbbing, and at other times seeming to go up into my throat, thus causing a terrible smothering sensation. Finally I grew so weak that I could not sew. Although I tried many remedies I could obtain no relief, and was almost in despair of a cure. "One day, however, I heard of Milburn's Heart and Nerve Pills and began to use them, and am now better than I have been for years. I work right along now, and the pains and palpitation have left me, much to my relief. My blood seems to be enriched and full of vitality, and my entire system is in a healthy and vigorous state."

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carefully compounded, ac-
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CHAS. McKEEN, Druggist, Woodstock.

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