

DYNAMITE. The assertion that the more destructive war is made, the greater the tendency to shorten its duration, is perhaps not far from the truth. Nevertheless, one recognizes with something of a feeling of horror that many of the terrible means in vogue for the slaughter of the human race have their origin in investigations undertaken by scientific men with the view of increasing the knowledge or ameliorating the condition of mankind in general. This is essentially the case with the substance whose name heads this article. Invented originally for the purpose of assisting the peaceful laborers of the miner and the engineer, it is now employed as the explosive agent of the torpedoes which defend the rivers and harbors of Germany against the aggressions of the French fleet.

Every one knows what glycerine is—a clear syrupy liquid, sweet to the taste, and somewhat greasy to the touch. Its scope of employment ranges from the surgeon's dispensary to the lady's bonnet. Chemists term it a triatomic alcohol, and it may be derived from fat or tallow by the action of lime and sulphuric acid. Its properties are many and various, but normally it is not used through the present subject, we shall abstain from noticing them. If a quantity of nitric acid be added to twice its weight of sulphuric acid, and glycerine be poured into this, and carefully stirred—the whole being surrounded by a freezing mixture—we obtain that wonderful substance known as nitro-glycerine, which has more than ten times the explosive force of gunpowder. It forms on the surface as an oily-looking liquid of a pale yellow color, is perfectly inodorous, and has a sweet aromatic taste. It is poisonous, when taken, but normally it does not act on the skin, and small doses of it produce distressing headaches. Although practically insoluble in water, it dissolves readily in either alcohol or wood-spirit.

Nitro-glycerine was discovered in the year 1847, by an Italian, named Ascougo Sobero; but its practical application is entirely due to the researches of Alfred Nobel, a Swedish mining engineer. It does not explode when brought into contact with fire, and remains unchanged even when raised to the temperature of boiling water; but at about forty degrees it becomes converted into an oily mass, which merely requires friction to develop all its explosive qualities. This peculiarity had been the cause of many lamentable accidents, when M. Nobel commenced a series of experiments with the view of rendering its employment comparatively safe. After some time, he found that mixing it with about ten per cent. of wood-spirit rendered it practically harmless, and this method is now generally adopted. When required for use, the wood-spirit can be removed, and all the properties of the nitro-glycerine restored by the simple addition of alcohol, which, mingling with the spirit, sets free, as it were, the nitro-glycerine. The only drawback to this is that when the nitro-glycerine is reconverted into its original state, it is of course quite as dangerous as ever.

To obviate this, M. Nobel has invented a new mixture, which he terms "dynamite." It consists of seventy-five per cent. of nitro-glycerine and twenty-five per cent. of very fine sand, and is a brownish-looking powder, something like sawdust, only greasy to the touch. It burns without explosion when placed in a flat of iron, and when in contact with a lighted match, it strikes with a hammer on an anvil, the portion struck takes fire without inflaming the dynamite around it. As a proof of the perfect security with which it may be handled, we may mention that M. Nobel has placed a case containing about eight pounds of it (equal to nearly eighty pounds of ordinary powder) on a brick fire, and that the dynamite was consumed without noise or shock; while a similar case was flung from a height of sixty-five feet on a hard rock without producing the slightest explosion. A weight of over two hundred pounds was allowed to fall on a weight of twenty feet upon a block of dynamite; the box was smashed, but again there was no explosion.

The usual method of firing dynamite is by means of a copper capsule containing fulminate of silver, the latter being inclined either by the ordinary slow-match, or by the electric spark. The employment of this capsule and detonating composition is absolutely essential to the explosion of dynamite. In order to give some idea of the force developed by such an explosion, it may be mentioned that a spontaneous fire of dynamite upon a block of rock, with the force of a hammer, will shatter the quartz to broken up into pieces about the size of a pea, and reduce the bricks to powder. Like nitro-glycerine, dynamite congeals at a comparatively high temperature; but to restore it to its proper condition, it is only necessary to put it in a warm place, or if it is contained in closed cartridges, to plunge it into warm water.

In mining operations, dynamite possesses many advantages over nitro-glycerine, besides those already mentioned. It has been usual, for instance, to pour the nitro-glycerine in a liquid state into the holes bored in the rock for its reception; and when from these into some unknown crevice, it has frequently, when fired, produced an explosion under the very feet of the miners, causing, of course, a disastrous loss of life. To obviate this, it has been necessary to employ cartridges, which do not completely fill up the bore-holes, so that a portion of the explosive force is wasted. Dynamite, on the other hand, being of a pasty consistence, yields to the least pressure, and completely fills up the holes, so that a given weight of this substance is almost as effective as a given weight of glycerine, while at the same time it is safer even than gunpowder.

It remains to be seen whether the anti-patented advantages will be derived from its employment as ammunition of war.

MARK TWAIN'S ADVICE TO LITTLE GIRLS.—Good little girls ought not to make mouths at their teachers for every trifling offense. This retaliation should only be resorted to under peculiarly aggravated circumstances.

If you have nothing but a rag doll stuffed with sawdust, while one of your more fortunate little playmates has a costly china one, you should treat her with a show of kindness nevertheless. And you ought not to attempt to make a forcible swap with her unless your conscience would justify you in it and you know you are able to do it.

You ought never to take your little brother's "chewing gum" away from him by main force; it is better to rope him in with the promise of the first two dollars and a half you find floating down the river on a grindstone. In the artless simplicity natural to his time of life, he will regard it as a perfectly fair transaction. In all ages of the world this eminently plausible fiction has lured the obtuse infant to financial ruin and disaster.

If at any time you find it necessary to correct your brother, do not correct him with mud—never do it with account throw mud at him, because it will soil his clothes. It is

better to scold him a little, for then you attain desirable results—your scolding has immediate attention to the lessons you are inculcating, and at the same time your hot water will have a tendency to remove impurities from his person—and possibly the skin also, in spots.

If your mother tells you to do a thing, it is wrong to reply that you won't. It is better and more becoming to intimate that you will do as she bids you, and then afterwards act quietly in the matter according to the dictates of your better judgment.

You should ever bear in mind that it is to your parents that you are indebted for your food and your nice bed, and for your beautiful clothes, and for the privilege of staying home from school when you get on that you are sick. Therefore you ought to respect their little prejudices and honor their little whims, and put up with their foibles until they get to crowding you too much.

Good little girls always show marked deference for the aged. You ought never to "sass" old people unless they "sass" you first.

THE SIMPLE ANNALS OF THE POOR.—At Portugal Cove, writes our Newfoundland correspondent, I used to stroll through the village in "the gloamin," and through the open doors and uncurtained windows I could see the inmates of the cottage "at home," and learn something of their "homely joys and destiny obscure." The lads and lasses I often met in couples, roaming about in the sweet summer evening, and in many cases, it was evident from the friendly relations between them, that a new cottage would shortly be needed. In fact, the grand passion was cropping out in this little hamlet as strongly as in the gas-lighted city, and I pondered on that universal law of sympathy between the sexes which was at that moment drawing myriads of fishes towards the shore from the far off depths of ocean, and which, bounding and billowing in the human breast, creates the sacred ties of husband and wife, home and family; laying the foundation of States and building up family life all over the world. And as I saw through the open door the big, weather-beaten fisherman tossing his crowling baby in his strong arms, while his little fists were clenching at his bushy whiskers, and the mother looked on his precocious performance with pride and joy, I thought that the happiness of this poor couple, who had perhaps scarcely a blanket on their bed, or more than a barrel of flour as a provision for the future, was as great as that of the lord and lady of broad acres, rejoicing over the advent of the heir of all their vast possessions.

A Taunton, Mass., bee-keeper seems to have had rather a "swell" thing of it. During the past year he raised and sent to market a ton weight of honey.

The novelty of a woman of forty-five running away with a youth of nineteen was recently witnessed by the loungers about the railroad depot at Detroit, Mich.

Richard Shello, a correspondent, Ind., having failed in an effort to induce a barber to cut his throat with a razor, retired in disgust from the shop of the latter, and swallowed enough arsenic to kill a dozen men.

Captain Norman Hurd, one of the last of the veterans who looked their fate to the Republic of Texas, died recently at Galveston. He was born at Middle Haddam, Conn., on the 31st of March, 1785.

The Troy Press asks what has become of the Ellsworth Monument Fund? "The snows of ten winters," adds that journal, "have fallen on his venerable youth, and the monument of joy has not yet crystallized into a monument to mark the spot."

A Port Huron, Mich., dealer has just returned from Liverpool, where he made a contract to deliver 10,000 barrels of apples at the rate of \$1.00 per barrel. He realized a net profit on the transaction of \$1,750 per barrel.

Colonel Henry C. Wilcox, of Fall River, died suddenly at the Massachusetts General Hospital a few days ago. The deceased commanded a colored regiment at New Orleans at the time General Butler was relieved by General Grant.

Two hundred and fifty-six feet of pier, up to the water-line, have already been constructed at Chicago with the \$50,000 appropriation made during the last session of Congress. The whole work of building a harbor refuge, it is estimated, will cost \$349,875.32.

Mrs. Fry, the plaintiff in the celebrated Flynt-Coolidge dress-making case at Boston, has abandoned her exceptions to Judge Reed's rulings, on which it would have been possible to carry the case to the Supreme Court, and has accepted the amount awarded by the jury, with costs.

A Minnesota paper, in referring editorially to the after-dinner speech of an admirer and subscriber, says:—"Mr. Barlow's inimitable style of elocution and gesticulation knocked into a cocked hat the most sublime, powerful, and effective of all effects of eloquence, Macready, Murdoch, Booth, and Fechter."

California seems to be still overstocked with young men who find it very difficult to secure situations. A gentleman recently writing from San Francisco says:—"There is not a solitary opening in the State of California, vast as it is, for another book-keeper, clerk, salesman, half-educated doctor, mining-stock broker, or general adventurer."

A smart traveling salesman for a commercial house in New York, who made the acquaintance of a beautiful young lady of Cincinnati, at the residence of her mother in that city, recently stole a march upon her dilatory lover by suddenly appearing in the native city of his charmer, and marrying her in less than four hours after arriving.

A petition to the Legislature of Michigan, asking for the passage of a law to prohibit the use of the feet or legs of animals in transportation, is at present in circulation for signature throughout that State. The object is to compel butchers and market men to provide cages or crates for conveying cattle and sheep from one point to another.

The old-fashioned German custom of advertising the betrothal of young people was recently renewed by a Teutonic family residing at Cleveland, Ohio, in the following announcement which appeared in the Akron *Germanian*:—"The betrothal of our daughter Andrea with the printer, Mr. W. Miller, in Akron, Ohio, is hereby given notice of. H. Gentz and wife, Andrea Gentz, Wilhelm Miller, betrothed."

The Indianapolis newspapers appear to be rather badly exercised in an endeavor to discover the standing of a mysterious individual who retired from there some time since, and started an immense wholesale cracker establishment in partnership with a worthy young citizen. The individual in question hails from Boston, but having absented himself from business for some weeks past, his creditors have begun to grow suspicious, and declare that if he does not soon return they will brand him as the central figure in a swindle of no mean proportions.

BOARDING. 1121 GIRARD STREET, BETWEEN ELEVENTH and Twelfth and Chesnut and Market streets. Vacancies for Families and Single Gentlemen. Also, a suit of rooms on the second floor, furnished or unfurnished, with first-class board. Also, table board. JOHN W. BISHOP, 934 St.

COTTON SAIL DUCK AND CANVAS, OF ALL numbers and brands. Tent, Awning, Trunk and Wagon-cover DUCK. Also, Paper Manufactured from Cotton. From SHIRAZ, SEVEN AND A HALF inches, with Pauline, Belting, Sail Twine, etc. JOHN W. BISHOP, No. 10 CHURCH Street (City Square).

RAILROAD LINES. PHILADELPHIA AND READING RAILROAD. Depot, THIRTIETH and CALLOWHILL Streets. For further notice trains will leave and arrive as follows:—

TRAINS LEAVE. A. M. TRAINS ARRIVE. A. M. Reading about 7:30 P. M. Philadelphia about 9:15 P. M. Harrisburg about 10:30 P. M. Pottsville about 11:30 P. M. Pottsville about 12:30 P. M. Harrisburg about 1:30 P. M. Reading about 2:30 P. M. Philadelphia about 3:30 P. M. Harrisburg about 4:30 P. M. Pottsville about 5:30 P. M. Pottsville about 6:30 P. M. Harrisburg about 7:30 P. M. Reading about 8:30 P. M. Philadelphia about 9:30 P. M. Harrisburg about 10:30 P. M. Pottsville about 11:30 P. M. Pottsville about 12:30 P. M. Harrisburg about 1:30 P. M. Reading about 2:30 P. M. Philadelphia about 3:30 P. M. Harrisburg about 4:30 P. M. Pottsville about 5:30 P. M. Pottsville about 6:30 P. M. Harrisburg about 7:30 P. M. Reading about 8:30 P. M. Philadelphia about 9:30 P. M. Harrisburg about 10:30 P. M. Pottsville about 11:30 P. M. Pottsville about 12:30 P. M. Harrisburg about 1:30 P. M. Reading about 2:30 P. M. Philadelphia about 3:30 P. M. Harrisburg about 4:30 P. M. Pottsville about 5:30 P. M. 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