

[SPECIAL TO THE DESERET NEWS.]
By Telegraph.
Per WESTERN UNION Telegraph Line.

ILLINOIS.
CHICAGO, 7.—Statistics show that 467 buildings have been erected in this city since January 1st, 1870, at a cost of nearly eight million dollars.

MISSOURI.
St. Louis 7.—The Jackson Place Skating Rink, a fine brick building on the corner of Tenth and North Market streets, was burned last night. Loss, \$30,000, insurance \$20,000. It is the work of an incendiary.

NEW YORK.
Men killed at the exhibition of an engine—Store plundered.

NEW YORK 7.—At an exhibition of a new fire extinguisher belonging to the United States Special fire-engine Company of Chicago, given in this city, yesterday, the building fell in, burying in the ruins four men.

The French gun-boat, *La Fanche*, returned to this port yesterday, having failed to intercept the *Westphalia*. Captain Theset, of the French gun-boat, refused to answer any questions in regard to the chase, but the Captain of the pilot boat says the *Westphalia* completely outwitted the enemy.

C. F. Rans & sons, silk and fur dealers, on Broome St., report that their store was plundered of five thousand dollars in Government bonds, and silk and beaver silks worth twenty thousand dollars, on Wednesday night.

The large block corner in William and Ann streets, owned and occupied by John C. Koch, Sons & Co., blank book manufacturers, caught fire this morning from a leaky gas pipe. The entire three upper stories were destroyed. Loss, \$40,000; insurance on the building, \$25,000, on stock, \$40,000.

FOREIGN NEWS.

GREAT BRITAIN.

Prince Pierre in London—Subterranean communication—Fighting in the air—A great gun.

LONDON, 7.—The Prussian guard is north of Paris between the canal de Laury and the northern railway; on its right is stationed the fourth corps, and on its left the twelfth corps. Twenty prisoners taken by the Prussian guard have been assigned the task of diverting the waters of the canal de Laury into the La Morce river. The stream turns into the Seine some miles below Paris. Should the Prussians succeed in their design, the source of water for the supply of the besieged will be cut off. The Prussian guns are nearly all in position before Paris and the bombardment will be commenced from all the batteries simultaneously.

Arrangements are perfected for the French fortresses of Belfort, Schlestadt and New Breisach to be attacked at once. The captors of Toul have been charged with the duty of taking Holsa. The Prussians have scoured the provinces of Marne, Orleans and Picardy without finding any traces of new French forces.

Prince Pierre Bonaparte has arrived in this city. The Paris *Monteur* exhorts the army to oppose increased vigilance and more vigorous resistance to Prussian raids.

The only objection the Bavarian government has to the German confederacy, is her reluctance to place her army under the Federal charge during times of peace.

Germans have occupied in force Paey and Vernon, small towns in the department of Eure; they were vigorously but ineffectually opposed by the nationalists.

A dispatch from Verdome, a town in the department of Loire at Cher, dated six o'clock last evening, contains the following intelligence: "The Prussians have been driven from Joinville, Lorry and neighborhood, in the department of Eure et Loire, and the French captured twenty prisoners, including one of Prince Albert's couriers. The road between this place and Verdome and Lorry is thronged with nationale gardes and there is much enthusiasm in this section of France."

The Masonic fraternity of England have contributed seventy thousand pounds sterling for the relief of the families of German soldiers.

A Belgian paper has an ingenious, but doubtless imaginary, account of an aerial combat between Felix Toursachen Nadir, the celebrated French aeronaut, and a Prussian aeronaut. The former came off victorious.

The great gun for Fort D'Ivry on the south of Paris is nearly ready to be placed in position. Its range is eight kilometres, and it requires thirty-five kilograms of powder for each discharge.

The Bavarians are about Bitche, which place they are besieging, occupy wooden huts instead of tents.

M. Pietrie, formerly prefect of police at Paris, to-day publishes, in the name of the Emperor, a repudiation of the Wilhelmshohe manifesto.

The Belgian papers intimate that the Prussians are alarmed at the approach of winter, and are disposed to press the siege of Paris.

General Bourbaki has reentered Metz. Eprenon has been completely evacuated by the Prussians, but there are still about 30,000 at Rambouillet.

The French say the enemy's cavalry at Tours numbered 1,500 and not 500, as at first reported.

A dispatch from Belmeval in the department of Eure-et-Loire on Thursday evening, says the enemy have evacuated the country beyond Tours and are apparently falling back on Etampes.

BELGIUM.

Prisoners revolting.

BRUSSELS, 7.—There are symptoms of a revolt among the prisoners confined at Berloo. Belgian rifles have been sent there as a temporary precautionary measure, and the prisoners will be distributed among the different fortresses as soon as possible.

FRANCE.

Mobiles driven.

VERSAILLES, 6, via Berlin, 7.—The fourth Prussian cavalry are scouring the country towards Loire. They drove 1500 mobiles out of Montfort Lamaur. Nothing important transpired before Paris yesterday or to-day.

STRASBOURG, 6, via Berlin, 7.—Gen. Van Worden, the Prussian commander reports that the besiegers lost from the 21st of Sept. to the capitulation of the place, 30 killed and 195 wounded. During the entire siege the Germans lost 906 killed and wounded, including one hundred and thirteen officers. The besieging force is now moving towards Paris.

TOURS, 7.—General La Motte Rouge, commander of the army of the Loire, has arrived here. Great quantities of arms and stores are pouring in from all parts of France.

RUSSIA.

St. Petersburg, 7.—M. Thiers, while here negotiating with the Russian government explained to the Italian ambassador to this country, that his only motive for opposing Italian unity was the fear that it would encourage German unity.

AN EDUCT AND A PRODUCT.

An educt is a substance eliminated from another substance which contained it before in the same condition; for instance, potatoes contain starch, and starch may be extracted, eliminated; therefore, starch is an educt of potatoes. Potatoes contain no alcohol; but alcohol may be made from potatoes, by a chemical change of the constituents of starch. The alcohol is, therefore, not extracted from the potato, but produced by a certain operation, namely, the fermentation of the starch; therefore, alcohol is a product of potatoes.

It is very common among persons who have not studied chemistry to suppose that whiskey is hidden in the grain, that aniline colors are hidden in the coal, that wine is the juice of the grape, etc. It cannot be strongly enough impressed on the mind that a chemical compound is not only an entirely different thing from its constituent elements, but that compounds of the same elements differ totally from one another, if these elements are combined in different proportions, or, even, when present in the same proportions, if they are grouped differently in the combination.

The starch in the grain is first changed into sugar, and this sugar into alcohol, all of which contain the same elementary substances—carbon, hydrogen and oxygen—but combined in different proportions. The same is the case with the grape-juice, the sugar of which is also changed by fermentation into alcohol, which is a new compound springing up spontaneously, and not existing before.

Perhaps one of the most striking instances of the total dissimilarity between a compound and its elements is that of phosphorus and phosphoric acid. Pure phosphorus is a most virulent poison, and as such used in different kinds of poisons; it is, in fact, as powerful as, if not more powerful than, arsenic. If this phosphorus is burned, that is combined with oxygen, it forms phosphoric acid, which, when pure, is solid, white as snow, very soluble in water, and makes, when largely diluted with water and sweetened with sugar, a most excellent invigorating drink, tasting like lemonade. Phosphoric acid is one of the necessary ingredients in our food, being one of the constituents of our bones, and in place of promoting perspiration, as is the case with most vegetable acids, it checks it when too profuse, and in this respect resembles the mineral acids.—*Manufacturer and Builder.*

Z. C. M. I.

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OVER FIVE HUNDRED DEALERS

In various parts of the land have unreservedly endorsed them. They are in use upon numerous lines of Railway, including the Union Pacific and the Pennsylvania Central, and officers of these roads, with other prominent R.R. officials, endorse them as the best watches for the use of R.R. employees and travelers yet introduced.

The following are presented as specimens of these testimonials:

TESTIMONIAL.

SUPPLY PACIFIC R.R., OFFICE OF GEN'L SGT. OMAHA, Dec. 18, 1868.

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Dear Sir:—During the month that I have carried one of your "Elgin" Watches, it has not failed to keep the time with so much accuracy as to leave nothing to desire in this regard. For accuracy in time keeping, beauty of movement and finish, your Watches challenge my admiration, and arouse my pride as an American, and I am confident that in all respects they will compare successfully in the markets of the world, with similar manufacturers of other nations. They need only to be known to be appreciated.

Yours most respectfully,

C. G. HAMMOND, Gen'l Supt.

OFFICE OF THE HUDSON RIVER RAIL ROAD, Gen'l Supt., New York, Jan. 17, 1870.

T. M. AVERY, Esq., President National Watch Co.,

Dear Sir:—The Watch made by your company which I have carried the past two months, has kept excellent time. I have carried it frequently on engines, and have been on the road with it almost daily. During this time it has run uniformly with our standard clock.

Truly yours

J. M. TOUCHEY, Gen'l Supt.

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