

Poetry.

The Huskers.

By JOHN G. WHITTEY.  
Heap high the farmer's wintry hoard!  
Heap high the golden corn!  
No richer gift has Autumn poured  
From out her lavish horn.

Let other lands exult gleam  
The apple from the pine,  
The orange from its glossy green,  
The cluster from the vine—

We better love the hardy gift  
Our rugged vales, bestow,  
To cheer us when the storm shall drift  
Our harvest fields with snow.

When spring-time came with flower and bud,  
And grasses green and young,  
And merry hobbits in the wood,  
Like mad musicians sung.

We dropped the seed o'er hill and plain,  
Beneath the sun of May,  
And frightened from our sprouting grain  
The robber-crows away.

All through the long bright days of June  
Its leaves grew thin and fair,  
And waved in hot mid-summer's noon  
Its soft and yellow hair.

And now, with Autumn's moonlit eyes,  
Its harvest time has come,  
We pluck away the frost-laden leaves,  
And bear the treasure home.

There, richer than the faded gift  
Of golden showers of old,  
Fair hands the broken grain shall flit,  
And knead its meat of gold.

Let rapid rollers roll in silk  
Around their costly board—  
Give to the bowl of camp and milk,  
By homestead beauty poured.

Where'er the wide old kitchen hearth  
Sends up its smoky curls,  
Who will not thank the kindly earth,  
And bless our corn-fed girls!

Let earth withhold her goodly rood,  
Let midday blight the rye,  
Give to the worm the orchard's fruit,  
The wheat-field to the fly:

But let the good old crop adorn  
The hills our fathers trod;  
Still let us for his golden corn  
Send up our thanks to God!

Miscellaneous.

History of the Electric Telegraph.

In connection with the great triumph of science which has just been achieved, the following resume of the history of the process through which the electric telegraph has passed in obtaining its present perfection, will be found interesting:

1726—An Englishman named Wood discovered that the electric fluid could be conducted long distances by wires.

1746—Herr Winkler of Leipzig discharged a Leyden jar by a friction machine, through a wire of considerable length, the river Pleiss forming part of his circuit.

1747—Dr. Watson made a successful experiment of a similar character, over a space of four miles, at Schooner's Hill, near London, embracing his circuit of two miles of wire and an equal distance of ground. A writer in the Philosophical Transactions, vol. xiv, 1748, gives him the credit of having been the first to suggest the application of electricity to telegraph purposes.

1748—Dr. Franklin set fire to spirit by an electric current sent across the Schuylkill on a wire, and allowed it to return by the river and earth.

1774—M. Lesage of Geneva constructed an electric telegraph, consisting of twenty-four wires, each properly insulated, and terminating at one end of either, was put into communication with the prime conductor of an electrical machine, the ball was repelled, and a corresponding letter thus indicated.

1784—M. Lomonosoff of Russia communicated telegraph signals to a neighboring room by means of a potato ball electrometer actuated upon electricity.

M. Ruise illuminated letters upon plate glass formed of tin foil, by means of electricity.

1795—M. Cavallo proposed to form an electric telegraph by firing a gas pistol at the distant end of a wire, and thus to give signals.

M. S. Var attributes the first idea of an electric telegraph to Dr. Franklin.

1798—Baincourt established a telegraph between Madrid and Aranjuez, a distance of 25 miles, through which a current of electricity was passed and gave signals for letters.

1809—Sommering constructed the first galvanic telegraph, in which, which operated by the decomposition of water, and which he also caused to ring a bell at the opposite end of the wire. Sommering was the first decomposition or chemical telegraph, and can be even now, successfully, but rapidly and easily made.

1816—Dr. John Redman Cox of Philadelphia, proposed to establish an electric telegraph and to make signals at a distance by the decomposition of water and metallic salts, causing a change in color to ensue.

1819—Professor Vassiot, of Copenhagen, discovered electric magnetism or electric magnetic motion.

1820—M. Ampere, of France, discovered the electric magnetism. This he constructed as many wires as there were letters, and used the deflection of the needle as a signal. He broke and renewed the circuit by finger keys, something similar to those of the key of a piano forte.

1824—Francis Ronalds, of England, proposed a telegraph by the use of frictional electricity. In his arrangements there were clocks at the station which kept time with each other, and which were furnished with a light disc of cyphers in place of hands, having twenty different signs to ward their circumference. At the moment the proper sign on the disc passed before the index at one station the spark was discharged, and the electrometer placed at the other discharged at the other and caused the signs on the disc at the other to be noted.

The telegraph is said to have extended to Hammersmith, eight miles, and to have used the discharge of a gas pistol as an alarm.

1825—Mr. Barlow, of Greenwich, England, made an attempt to put a galvanic telegraph in operation, but was baffled by the diminution of the fluid, when he attempted to transmit it for a great distance, so as to produce mechanical effects. This difficulty the discovery of Henry, however, afterward overcame.

In the same year Mr. Sturgeon of England constructed the electric magnet by coiling a copper wire round a piece of iron of a horse shoe form, the bent turns of the

wire being so far apart as to prevent contact. He found that when the electric fluid passed through this coil, the enclosed iron became a magnet, and was again demagnetized in breaking the current. The wires were afterwards covered with non-conducting substances, and wrapped around the iron in close contact, as we now see them.

1831—Mr. Harrison Gray Dyer erected a telegraph on Long Island, in New York. He used frictional electricity, and dyed marks on chemically prepared paper by the passage of sparks.

1831—Professor Joseph Henry of Princeton College discovered a method of forming magnets of intensity and of quantity produced from corresponding batteries, and by the use of which, with relay magnets, &c., prepared by him he made known the practicability of producing mechanical effects at a great distance, say 1000 to 2000 miles.

1832—Baron Schilling of St. Petersburg contrived a defective magnetic telegraph, which had an alarm bell connected with it.

1833—Gauss and Weber first constructed the simplified electro-magnetic telegraph. It was Gauss who first employed the inductive method of induction and demonstrated that the appropriate combination of a limited number of signs is all that is required for the transmission of communications. Weber discovered that a copper wire 7400 feet long, which he carried over the houses and church steeples of Göttingen, from the Observatory to the Cabinet of Natural Philosophy, required no special insulation.

This was an important point of discovery in the construction of telegraph lines, and is made available to the present time.

1837—Stenhiel constructed and put in use between Munich and Göttingen, in the July of this year, his registered electric telegraph, by the deflection of a needle he produced dots or short marks on fillets of paper, to stand as signals for letters, &c., the paper being drawn forward by clock-work in an endless slip or ribbon.

On the 12th of June of this same year the defective electro-magnetic telegraph of Cox and Wheatstone was patented in England. They first employed receiving and relaying magnets.

In the October following, Samuel F. B. Morse of New York, entered his first patent for an American electro-magnetic telegraph, in which he chiefly relied on a kind of type and port rule for making signals by the mechanical force of electro-magnetic motion. Morse claimed that he first thought of a magnetic telegraph on his passage to the United States in the brig Sally, in the year 1832.

1838—Edward Davy, of London, had his patent sealed for a chemical telegraph, which was enrolled January 4, 1839. In his plan he employed chemically prepared paper, similar in its general character to that used on the instrument of Bain.

1843—Alexander Bain obtained his English patent for his improved electric telegraph, and got his American patent 1840.

1847—Royal E. House of New York, obtained in conjunction with Mr. Brett, a patent for their electro-magnetic and relaying telegraph.

1848—Messrs Zook and Barnes of Cincinnati, invented a modification for the electro-magnetic telegraph, by combining fixed magnets with the use of electro magnets.

1849—Monday, 29th January. The memory of Horatio Hubbell, in which he was joined by John H. Sturtevant, was presented to Congress, praying for aid in constructing a telegraph communication across the Atlantic Ocean, setting forth the existence of a table land plateau on roundings between Newfoundland and Ireland, upon which the said telegraph could be constructed, and entering into other details in order to carry out the project. It being the first devised and published plan ever made to carry a telegraph across the Atlantic.

Mr. Horn of New York invented his signaling telegraph, which made dots and lines by burning them on slips of revolving paper by the heat of the electric fluid while passing.

About the same time, Mr. Johnson of New York constructed a machine worked by electro-magnetism, to let it drop on slips of paper, which were prepared at the same moment, left visible marks which stood as signs for letters.

Also about the same time, Mr. Daniel Davis of Boston prepared an Axtel telegraph, made at once, and which, it is said, does not seem to have met with much attention.

1855—Mr. Hughes obtained his patent for his ingenious and admirably combined printing telegraph, which he designed to effect a revolution in all the existing systems. Its superiority consisted in its working relay, which carried a larger current than any previously invented. Not only does it transmit messages with greater rapidity, but it has the advantage of receiving and transmitting simultaneously on a circuit of at least five hundred miles, performing the same work with one wire, and it is almost free from interruption from the atmospheric electricity.

The total length of telegraph lines in 1858, so far as was ascertained, was 96,550; of which there was in America 45,000, in England 10,000, France 4,000, Russia 5,000, the rest of Europe 7,550, India 5,000, Australia 2,000, others parts of the world 500. The number of messages passing over all the lines in the United States is estimated at about 1,000,000 per annum.

From the year 1850, the submarine cable was practically unknown. In this year the first submarine cable was laid from Dover, England, to Calais, France. The cable was twenty-four miles long, and has since been in operation, with one interruption, complete success. Since that period 350 miles of submarine cable have been laid in twenty-seven different lines, the three longest of which are across the Gulf of St. Lawrence, in 1856, 74 miles; between Varna and Balaklava, across the Black Sea, in 1856, 340 miles.

The message of a Caffre war or an Indian mutiny will reach the British capital, and shall be able to economize the whole time consumed by the ordinary vehicles of intelligence. We see with not unusual surprise that the advantage of the discovery will be the greatest to those countries the possessions of which are the most remote, and therefore, that England has more to gain than any of her rivals. More was done yesterday for the consolidation of our Empire than the wisdom of our statesmen, the liberality of our Legislature, or the ability of our colonists could ever have effected. Distance between Canada and England is annihilated. For the purpose of mutual communication and of good understanding the Atlantic is dried up, and we become in a manner as well as in wish one country. Nor can any more difference in the position in which the Atlantic Telegraph has placed us in regard to the great American republic. It has half undone the Declaration of 1776, and gone far to make us once again, in spite of ourselves, one people. To the ties of a common blood,

language and religion, to the intimate association in business and a complete sympathy on so many subjects, is now added the facility of instantaneous communication, which must give to all these tendencies to unity an intensity which they never before could possess.

Telegraphic Instruments.

As the electricians are opposed to be experimenting at Timmy Bay and Valentia with the various recording instruments in use, it is of interest to know what are the chief differences between them.

The Morse Instrument, in common use from the first, in this country transmits messages by the alternate breaking and connecting the electric current. The current allowed to flow a moment produces a dot; if a little longer a line. The operator works on a single key, and the messages are recorded by an alphabet composed of combinations of lines and dots, thus:

In the hands of an expert, the speed of this instrument is about twenty words a minute.

The Cooke and Wheatstone Instrument is the one that, until lately, has been generally used in England. A needle on a dial plate revolves, pointing out the letters, which are inscribed on the circumference, once like the hours on the face of a clock. This, at the fastest, is only about fourteen words a minute.

The House Instrument prints the message in Roman capitals, on a long strip of paper, by the revolution of a type wheel, which is moved by the current, and like that of a piano, with a key for each letter. The printing is done by clock-work, the force of the electric current being to preserve equal time, so that the letters of one machine may correspond to those of the other. This instrument prints twenty-five or thirty words a minute.

The Hughes Instrument is a combination of the Morse and House inventions. In Morse instruments two or three pulsations of the electric current are required to indicate one letter. In the House instrument it requires but one to twenty-eight pulsations. In the Hughes instrument it requires but a single pulsation for each letter—American Paper.

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