Truth and Liberty.

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Though storm-clouds gather o'er our head. (Written in a Lady's Album.)

BY ELDER W. G. MILLS.

Though storm-clouds gather o'er our head, Like vengeful sprites communing; And winds on rapid pinions speed, A deathlike dirge attuning; Though chills attack the shrinking frame, That seems of life aweary; While every scene by field and stream Is comfortless and dreary:

Yet soon the teeming clouds will burst Their vapory margined river, And nature thus with plenty nursed Will smile and thank the Giver: The piercing blasts will genial be, Like babes at rest reclining, As Sol peeps forth, for night nor day. Nor clouds obscure his shining.

which resulted the present success.

ed by the company. These terms were agreed the family home in Stockbridge, in this State. world.

We would not, however, take all the credit for there, a relation he continued till 1837, when it is the cable which, safely anchored on either lege, in the same county. shore of the wide Atlantic, shall hasten the good time coming-

best route, and there was formed an association Field, whose name is now a household word; the blessing of Heaven, prove to be a bond of for the purpose of establishing telegraphic com- Matthew D. Field, of Southwick, in this county, perpetual peace and friendship between the kinmunication between America and Europe, from a civil engineer, and one of the Republican sen- dred nations, and an instrument destined by ators from Hampden county in 1857; Stephen I. Divine Providence to diffuse religion, civilization, The two Fields and Mr. White went to New- Field, a judge of the Supreme Court of Cali- liberty and law throughout the world. In this foundland to ask for a charter and assistance. fornia; and Rev. H. M. Field, formerly pastor of view will not all the nations of christendom spon-They arrived at St. John's in March, 1854, and the Congregational Church in West Springfield, taneously unite in the declaration that it shall called upon the Governor, who convoked the Ex- and now one of the conductors of the New York be forever neutral, and that its communications ecutive Council the same day. The Governor Evangelist. The seventh and oldest son, Timothy, shall be held sacred to the places of their destigave a favorable answer in on hour or two, and went to sea thirty or more years ago, and has nation in the midst of hostilities! immediately sent a special message to the legis- never been heard from since. One of the lature, then in session, recommending them to daughters married the brother of Mr. Cyrus pass an act of incorporation, with a guaranty of Field's wife, and died at Paris within a few years. the interest on the Company's bonds to the amount The other daughter married Rev. Josiah Brewer, of \$200,000, and a grant of fifty square miles of and became with him a missionary in Greece; land on the Island of Newfoundland, to be select- whence they have returned, and now reside at upon, and out of the agreement" has resulted In 1819, Rev. Dr. Field removed from Hadthat splendid success which has aston shed the dam to Stockbridge, Berkshire County, Massachusetts, and became pastor of the village church

(Signed) JAMES BUCHANAN. Washington City, August 16, 1858.

Trial of Breech-loading Arms.

It will be recollected by most of our readers that Congress, at the last session, made an appropriation of \$25,000 for the purpose of altering the government muzzle-loading firearms to breechloading, and authorized a trial to he made of all breech-loading arms susceptible of adaptation to this change, whose owners were willing to compete, with a view of ascertaining their relative jor Ramsay, detailed by the Secretary of War to examine and report on such plans as might be submitted by inventors, have lately concluded their examination, and it is presumed will soon furnish their report to the Secretary. The programme of the recent trial, which took place at West Point, was as follows; 20 rounds for accuracy, at 100 yards; 80 rounds more, to make 100, for endurance; 20 rounds for rapidity; 20 rounds for accuracy at 600 yards; 3 rounds for penetration. The competing guns, named in the order in which they were filed before the Board, were Morse's, Joslyn's, Mt. Storm's, Merrill's, Maynard's, and Sharp's; and all of them had been having been altered from an old U. S. rifle, and although, in consequence, somewhat rough in appearance, elicited marked evidences of approval from the general ease and facility with which it was handled throughout the trial. The following is the tabular statement, as prepared by the correspondent of the New York Times, the guns being placed in the order of their apparent superiority in each branch of the trial:

Thus when the path of life appears By clouds and storms attended, And distant scenes are viewed through tears, And human hope suspended; The hand that stills the wildest storm, And wisely governs nature, Will shield the humble heart from harm And blessings give the creature.

And though the present may be dark, Our pleasures from us liven, He that provided Noah's Ark Still rules in earth and heaven; He keeps the bird that wings the air, Protects the fragile flower; And we, the subjects of His care, Shall realize His power. G. S. L. CITY, April, 1858.

[From Life Illustrated.] THE TELEGRAPH TO EUROPE.

The Atlantic cable is the theme of every tongue, rope. and the gigantic undertaking of laying it has been successfully accomplished. John Bull has given the right hand of telegraphic fellowship to Brother the inventor of the electric telegraph, is the eldest Jonathan; an iron cord unites the two hemi- son of Rev. Jedediah Morse, the first American spheres in a very convenient way for tete-a-tetes. geographer, and was born in Charlestown, Mass., The electric current with its load of intelligence April 27th, 1791. He was educated in Yale Colis connected to the wires, and in a twinkling the lege, and graduated in 1810. inessage has traversed broad ocean, giving us in- A passion for art was early developed, and he formation for which the most rapid steamers was sent to England to study, and was there the to accomplish it. Fortunate is he in having comwould have made us wait seven days. The electric telegraph, as such, is no very new rapid progress in his profession, and won a great thing. To no single individual is due the credit deal of praise in London, but on his return to of having invented the telegraph as a whole, but America met at first with but poor encourageit has been made from small beginnings, progress- ment. He was, in the end, however, successful, all muscle and nerves, and no flesh, five feet eight ing step by step until it has reached its present and on settling in New York in 1822 found his state of advanced improvement. Though tele- talents appreciated and skill put in requisition .-graphing by el ciricity was known as early as He painted a full-length portrait of Lafayette 1774, yet the first line put up in the United States for the corporation of New York, and shortly affor t e transmission of messages from c ty to city terward formed that association of artists which forehead, and a full head of auburn bair. There was the one between Baltimore and Washington, resulted in the establishment of the National in 1844. This has was built for and worked by Academy of Design. The idea of the electric him, that makes him seem younger than he really the Morse instrument, which, on account of is telegraph first occurred to him on his return is. There is little of the impressiveness of figure wit:certainty and simplicity, is still in most general from a second visit to Europe in the packet-ship and manner about him that distinguishes his use in this country, It is necessary to the use of any instrument and discouragement, he succeeded in fully demonthat a current of electricity shall be supplied to strating the practicability of his invention, by work i'. Electricity is to the telegraph what putting in operation in the New York University tion are exact to date and letter; but they trace Jos steam is to the steam-engine-the motive power. a model of his 'Recording Electric Telegraph.' The plan now adopted is to have what is called a In 1837 his caveat was filed in the Patent-Office ness. line-battery to send a current through the wire in Washington, but it was not till 1840 that his from station to station, and a local battery to patent was finally perfected. The first electric work the instrument. To operate in this way, telegraph in the United States, between Washwhat is termed a "receiving magnet" is used, and ington and Baltimore, was completed in 1844 by means of this the local battery is brought into Since that time a perfect net-work of wires has action to work the recording register. In a few been extended over the whole country. The To the Honorable, the President of the United words, it consists chiefly in the combination of a transatlantic submarine telegraph is the grand style or point, which is operated by electricity, crowning triumph for Professor Morse's fame. with clock-work and a drawing-off apparatus by which the intervals of time, which the style touches the paper and also those in which it is withdrawn from it, may be accurately registered, the steady motion of the clock-work producing the great accomplishment of the age has been this effect, and by registering these different in- wrought. tervals of time corresponding to the motion of the operating key at a distant station, a message may Republican: be intelligibly transmitted.

"When man shall be Unselfish-free, And each shall be to each a brother."

The cable is 11-16ths of an inch in diameter, and made up as follows:

The central strand is composed of seven small copper wires (No. 22); this is surrounded by three distinct layers of gutta percha, for the purpose of insulating the wire. This is covered by being wound with yarn saturated with a mixture of pitch and tar. Around the whole are eighteen protecting strands of annealed iron wire, each strand being composed of seven wires, No. 22. There are therefore seven miles of copper and 126 miles of iron wire in each mile of cable, weighing about a ton, and yet the flexibility is so great that it is nearly as manageable as a small

PROF. SAMUEL F. B. MORSE.

Samuel Finlay Breese Morse, best known as

pupil of Allston, West, and Copley. He made pleted his own work. No Fulton can come in Sully, in 1832. In 1835, after great difficulty brother Dudley, of the New York tar.

our countrymen. The honors are so great they was dissevered, and he returned to his old charge can well be shared. Much as Americans have at Haddam for a few years; but he retired from done in the matter, the thing would not have the ministry some ten years since, and came to merits. The Board of Ordnance officers, consistbeen accomplished but by aid and influence of Stockbridge again, where, amorg his old friends, ing of Col. Ripley, Captain Maynadier, and Ma-Englishmen and English capital. We have a few and with a portion of his children, he is living among us who are not satisfied with the result out in peace and honor the few remaining days per se, but seem to be almost sorry for the suc- of a long and useful life. Thus Stockbridge may cess, because both ends of the cable rest on Brit- fairly claim to be the family home; here the father ish soil! Fie on all such narrow, sectional feel- passed his most active and important years; and ings! The world should be our country, and all here his sons were reared and prepared for the men our countrymen; and more than any one important lines of action into which they have thing that has ever been done in any age to bring nearly all since fallen. David Dudley Field and about the consummation so devoutly to be wished, Rev. Henry M. are graduates of Williams Col-

Mr. Cyrus W. Field engaged early as a clerk for his older brother, Matthew, who was a paper manufacturer at Lee. About the period of his majority, perhaps before, he engaged in the same business on his own account in Westfield, in this county, but failed about 1837. He subsequently altered from muzzle to breech-loading, Storm's went to New York and established a paper commission house-one of the first of the large modern establishments of that description. Ill success overtook him here again: but it did not conquer its victim. Nerved to new labor, he continued the same business, commanded fortune, paid off all his old debts, and became a rich man. Liberal in dispensing the blessings of his wealth, he was the patron of art, and surrounded his father, at Stockbridge, with all the comforts and luxuries that old age covets. Some five or six years ago, he seemed to have conceived the purpose of constructing the ocean telegraph, and at once threw into its consummation all his native enthusiasm, all his acquired knowledge of men and things, all his energy and perseverance, and all his pecuniary means.

There seems to be no divided honor in this enterprise-no possibility of question as to the author of the great achievement of modern civilization. Hundreds may have dreamed and suggested the idea; but Mr. Field was the first to set seriously at work for its realization, and the first

AY AND A CARD AND A CA	RDS.
Joslyn,	1 Morse, 4 2 Maynard, 5 3 Merrid. 6

All the guns stood the test in this respect, but Sharp's evidently worked hard, and Morse had twenty-eight miss-fires.

RAPIDITY-TWENTY ROUNDS.

		M.	S.					M.	s.
1. Mt. Storm,	,	. 2	10	14.	Joslyn,				
2. Merrill, .	2000				Morse, .				
3. Sharp, .					and the second se				
TWENTY RO	UNDS	FO	RA	CCI	CRACY-S	IX	HU	NDR	ED

CYRUS WEST FIELD.

Our article would be incomplete without a brief sketch of the man through whose instrumentality

We copy the following from the Springfield

Cyrus W. Field having achieved greatness and reciprocal esteem. The Queen has much pleas-That the credit of a successful attempt to con- renown through the success that has crowned his IF At a military entertainment at Cincinnati, ure in thus communicating with the President, nect the two continents is due to the energy and energy and perseverance in the laying of the Atin giving the regular toasts, "the Army" was and renewing to him her wishes for the prosperity perseverance of our fellow-citizen, Cyrus W. lantic telegraph cable, the public is interested to not torgotten, when a distinguished Colonel rose, Field, we suppose there is no doubt, but that he know what manner of man he is, and to learn the of the United States. and commenced by saying:was the originator of the idea seems not quite so chief incidents of his history. His family is one "Here's to the Army-may it never want!" PRESIDENT BUCHANAN'S PEPLY. certain. Be that as it may, it is certain that the of the most honorable in Western Massachusetts, great scheme that has accomplished the result was with members distinguished in nearly every dether David Dudley Field, Samuel F. B. Morse, necticut. His children were seven sons and two table energy of the two Continents. It is a down the house .- [From Harper. Peter Cooper, Moses Taylor, Marshal O. Roberts, daughters. Of the former are, David Dudley triumph more glorious, because more useful, than and Chandler White were present. Maps were Field, one of the first lawyers of New York city; was ever won by the conquerer on the field of laid upon the table, and conversation ensued up- Jonathan E. Field, a member of the Berkshire battle. on the practicability of the enterprise and the bar, and resident of Stockbridge; Cyrus West! May the Atlantic Telegraph Company, under self.

to rob him of the honor.

Mr Field is about 43 years old, and looks younger, if possible. He has a light, lithe body, inches high, and weighs perhaps 140 pounds .--His features are sharp and prominent, a nose that almost exhausts his face; eyes small, sunken, gray or blue, and apparently half closed; a large is a youthful, almost boyish appearance about

We do not know that these facts in the history of the new Moral Hero of the Christian Civiliza- Mo the outline of his life and character with correct-

By Atlantic Telegraph. VALENCIA VIA TRINITY BAY, ? August 16.

States :--

Her Majesty desires to congratulate the President upon the completion of that great international work in which the Queen has taken the deepest interest. The Queen is convinced that the President will join with her in fervently hoping that the electric cable which now connects Great Britain and the United States will prove an additional link between the nation whose friendship is founded upon their common interest and

LAY MALE AND A LAY	RDS.
Balls in target.	Balls in target.
	4. Joslyn, 5
2. Sharp: 7	
3. Morse, 7	6. Merrill, 3
PENETRATION-INCH BOA YAR	
Mt. Storm 1	Joslyn, 4

This result being estimated by allowing for different weight of powder and ball, and not merely for the number of inches passed through, which were in the order of firing first named, to

THREE ROUNDS EACH.

- Martin	Weight Weight of ball. of p'der.				Total.		
1 Baller		grains.	1	2	3	inches.	
rse, .	744	70	12 3-8	1238	13 1-8	37 7-8	
lvn, .	550	60	12 1-2	11	9	32 1-2	l
Storm,	500	60	12	111-8	11 3-8	34 1-2	
rrill, .	. 744	70	13 1-4	13 3-8	131-8	39 3-4	
ynard, .		70	111-4	111-8	. 11 1-2	33 7-8	
rp, .	and the second second second	70	10 1-4	11 1-2	10	31 3-4	

After these results were obtained, Storm proposed that all the guns should be immersed in water for a stated period, and afterwards tried, to see what effect this exposure, to which they are likely to be subjected to in practice, would have, but this was objected to. He also proposed that they should be thrown against rocks, or down precipices, to further test their powers of endurance, but all refused compliance to this course, except Sharp. Four of the guns tried were loaded with the usual cartridge, and Mt. Storm's had the additional advantage of capability of being loaded with locse powder and ball .--[Scientific American, Aug. 14.

and there he rested, colored, stammered, and was The President cordially reciprocates the con- completely lost; when a shrewd one sitting at planned in the dining-room of Cyrus W. Field, partment of active life. Rev. D. D. Field, a na- gratulations of Her Majesty, the Queen, on the his side whispered, "And may it never be want-\$4 Gramercy Park, one evening in the early part live of East Guilford, Conn., a graduate of Yale success of the great international enterprise ac- ed!"-which the Colonel repeated in a clear of March, 1854, when Cyrus W. Field. his bro- College in 1802, first settled in Haddam, Con- complished by the science, skill and indomi- voice, and which produced the effect of calling Happiness is a perfume that one cannot shed over another without drops falling on one's