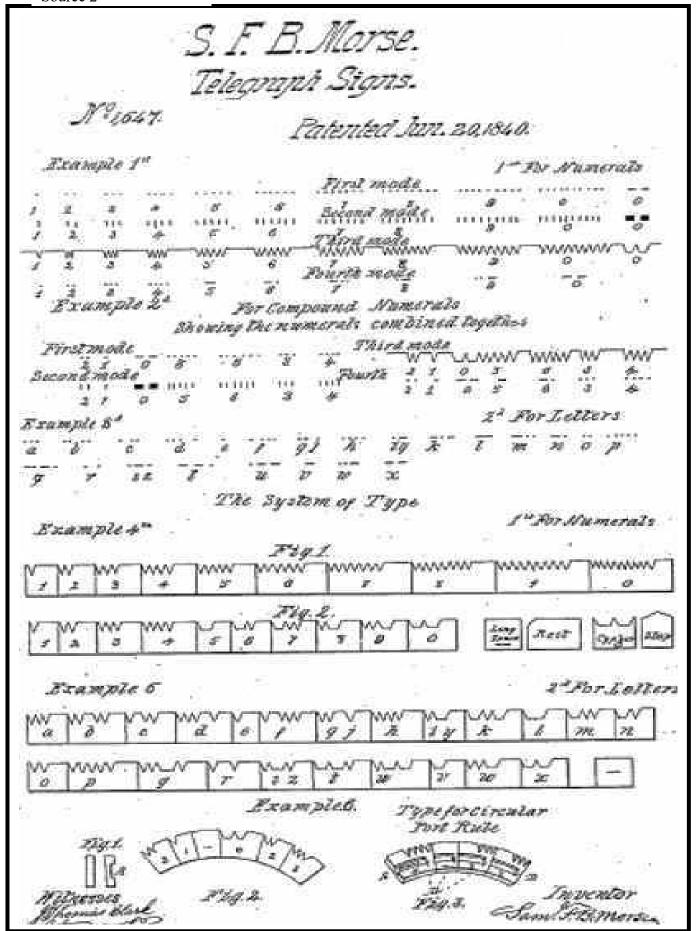


Every time the sending operator (1) presses his key, the sounder at the right of the receiving operator (2) clicks. A quick double click is a "dot"; two clicks separated by a distinct interval is a "dash." The sample message shows how telegraphers abbreviate, using initials for cities, and so on. The "vibroplex" (3), sometimes called a "bug," is a device attached to the regulation sender, which makes sending easier, doing away with "telegrapher's cramp." "Dashes" are sent by pressing the key to the left: but when it is pressed to the right, a vibrating



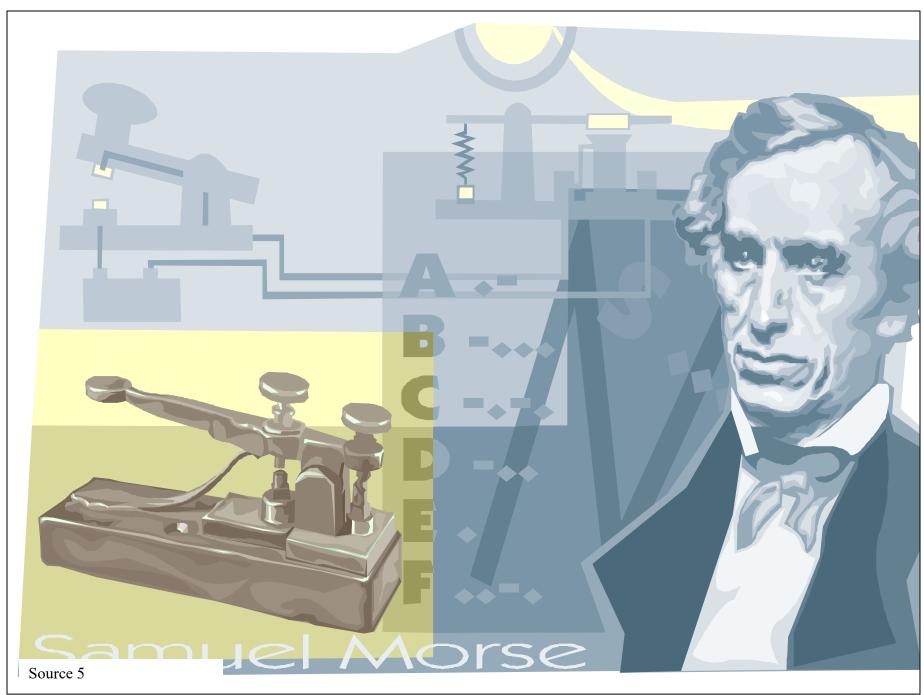
Totapsie June 25. 1864 my dear Su accept my thanks for your andrufe in Sending me The very interesting and able letter of the Ston. Secretary Seware to M. Chandler, on the Intject of M. Volling petition for the aid of the government In Constructing our Overland Interna-Aronal Selegraph line. That been by tracts from it I alludion made to it to Several papers, and was refron the point of Soliciting a copy from Mi Seward as a does ment I wish to preserve, but your Triendly Consideration makes it unnecessary. To you , as well as to myself, the rapid progues of the Selegraph throughout the world, must been wonderful, and with me you will doubtless often recur to our Friend annies inspired message What hatt No wrought. It is induce, his marvellows work, and to him be the flory. Carty in the History of the sevention forecasting its juture, I was accustom.

## My dear Sir,

Accept my thanks for your kindness in sending me the very interesting and able letter of the Hon. Secretary Seward to M. Chandler on the subject of W. Collins petition for the aid of the government in constructing our Overland international Telegraph line. I had seen extracts from it and allusions made to it in several papers, and was upon the point of soliciting a copy from M. Steward as a document I wish to preserve, but your friendly consideration makes it unnecessary.

To you, as well as to myself, the rapid progress of the Telegraph throughout the world, must seem wonderful, and with me you will doubtless often recess to our friend Annie's inspired message" What hath God wrought? This is indeed, his marvelous work and to him be the glory.

0 1 1	was written  = =  W	from Washing ton	by me at the,	Baltimore Iss	minus at 8.h	45 mi A.M.
=		1844, being the	füsh transm = = G		Vashington & Ba	ltin =
Baltimore, a	3	d by my much lone  ===================================	ed friend Annie	G. Elleworth.	Sant F. B.	
	ant F. B. Mod	sv Superint ====================================	indent of Eli	e. Mag. Tel	legraphd  = t.?	



£1843 ?•
Estimate of Carrying on Posts.
A man will prepare 16 posts 70. day, at pura
A man will prepare 10 posts 10. day, at pusas
It will take by posts from Patent Of to Cap.
that is 5 days, day one week.
100 feet apart
52 posts in a mile 48
52 posts in a mile 48 40 miles 16 2080 posts to Baltimore 180 lays for one man to prepare them
130 days for one man to prepare them
Form men would prepare them in one mostle
or 40 days,
4 Men at 1.25 No day
make \$50.00 tack or 200 dollars for four
12 miles to Beltswille
16 62 4 hasti
39 days one man, 10 days four men \$ 48.75
3 and a monder to prepare posts
99350

Washington May 31. 1844 -Vear Sidney, You will be by the Dapen, how great success has attended the first efforts of the Telegraph. That Sentence of Annie Elenworths was divinely indited, for it is in my thoughts day and night, What hall Gos wrought. It is his work, and he alone could have carried me thus for through all my trials, and enabled me to triumph over the obstacles physical and Moval which opposed me, Not unto us, not unto us, but to they name O Lord be all the maise" - I begin to fear now the effects of put lie favor, lest it should knidle that pride of head well as nothers breaks, and which is so really be on feel grate fied, but I rejoice with fear, and I disine that a sense of dependence, and increased obligation to the Give of every good and perfect gift, may keep me humble, and circumspect .. The Conventions at Battimore happened most apportunity for the display of the powers of the Selegraph, especially as it was the medium of correspondence between the Con vention and the first candidate elect for the 99587 Vice Presidency. The enthusiasm of the

crowd before the window of the Telegraph Room in the Capital, was excited to the highest pitch, at the announcement of the nomination of the fees. idential Candidate, and the whole of it afterwards Summeturned repor the Telegraph. Afterior They gave the Telegraph 3 cheers, and I was called to cheers were given by Some hundreds present, composed mainly members of Congress. - Such is the feeling in Congrefs that many tell me, they are ready to grant any thing. Even the most invelerate opposers, have changed to admirers and one of them Hon. Cave Johnson, who ridiculed it last session by associating unangerham with the mission my tricks of animal magnetism, came to me and said Si I give in, it is an astorishing mountion." When I see all this, and Such enthusias in every where manifested, and contrast the present with the past Season of darkeness and almost dispair, have I not occasion to exclaim What hath Got wrought? Surely none but He who has all hearts in his hands, and turns them as the river of water are turned, could so have brought light out of darkness. Sonow may con time for a night but joy comath in the morning . -Pray for me then, my dear brother, that I may have a heart to praise the Great Schwerer, and in future when discouraged or despairing be enabled to remember His part mercy, and in full faith restall my cases on him who careth for us.

3

From the first paragraph..... Dear Sidney, You will see by the papers, how great \_\_\_\_\_ has attended the first efforts of the Telegraph. That sentence of Annie Ellsworth's was divinely \_\_\_\_\_, for it is in my thoughts day and night. "What hath God wrought?". It is his work, and he alone could have carried me thus far through all my trials and enabled me to triumph over the obstacles physical and moral which oppose me.

From the second paragraph.....

The Convention at Baltimore happened most opportunely for the display of the powers of the Telegraph, especially as it was the medium of correspondence in any instance between the Democratic Convention and the first candidate elect for the Vice Presidency. The enthusiasm of the crowd before the window of the Telegraph Room in the Capitol was excited to the highest pitch at the announcement of the nomination of the Presidential Candidate, and the whole of it afterward seemed turned upon the Telegraph. They gave the Telegraph 3 cheers, and I was called to make my appearance at the window, when three cheers were given to me by some hundreds present, composed mainly of members of Congress.

Washington May 7. 1844 I have a moment just before retiring to bed very much fatigued, to write a few lines. This morning my young friend Mit Annie ly. Ellsworth left Washington with her Cousin M. Goodrich Smith for New York to pass a week a two in the city. She will be at M. Manning Tracy's Nº 107 Second avenue, 4 doors above o. Shut I gave her a letter to Sister Catherine, and for my Sake and her father's & mother's I wish you and Sister would become acquainted with her, and particularly my Susan if the arrives in Myork Soon, as I expect the will be with you in a lay or two at faithest. Let me know when Susan and The Charles arive, for if they come within the next fortnight, I think I can contrive to run on and pay a visit of two or three days, unless my marphot Smith Should prevent again, as he is likely to do if he comes on here. As yet thew is no settlement of that matter, and he sume de termined (inter nos,) to be as righy as he can and defeat all application for an appropriation of I am to have the management of it; he chapes like a wild boar, but when he finds he can effect nothing by such a temper, dell interest may doften 99513 him into turms. \_ You will see by the papers

that the Telegraph is in Successful operation for In miles to the Junction of the Unnapolis road with the Balt. & Wash pood. The nomination of M Frelinghuysen as V. Prest was written, Sent on, and the receipt acknowledged back, in 2 minutes and I Second, a distance of 44 miles. The news was Spread allower Washington, One hour & & minute, before the cars containing the news by express arrives. In about a fortnight I hope to be in Baltimore and a communication will be established between the two cities. Good by I am almost asleep from exhaus So excuse abrupt closing. Love to Catherine Finly, and the Children and to Richard, Louisa and Your affectionale brotten Sand hill morse .. P.S. I Lent you a few days ago one of M. Elleunth Reports, did yought it?

From the last line on the first page and the top of the second page of another letter written in May 7, 1844 from Samuel Morse to his brother Sidney

You will see by the papers that the Telegraph is in successful operation for twenty-two miles.... The nomination of Mr. Frelinghuysen as Vice-President was written, sent on, and the receipt acknowledged back in two minutes and one second, a distance of forty-four miles. The news was spread all over Washington one hour and four minutes before the cars containing the news by express arrived. In about a fortnight I hope to be in Baltimore, and a communication will be established between the two cities.