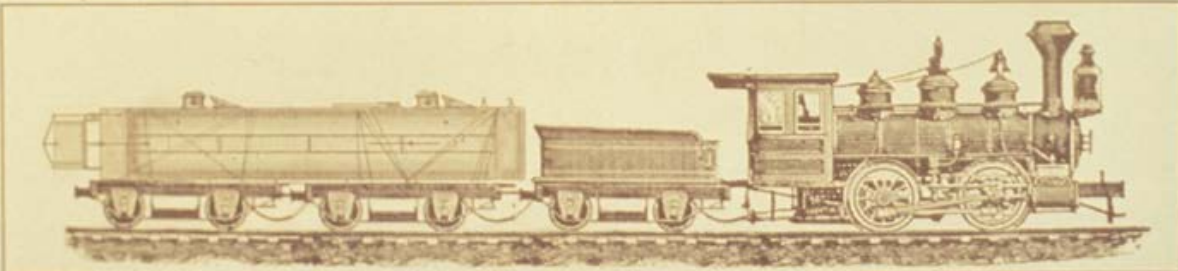


### THE C.S.S. HUNLEY



*The little submarine was covered with tarpaulins and secretly transported from Mobile to Charleston.  
Photo reproduced from the collection of the U.S. Library of Congress.*

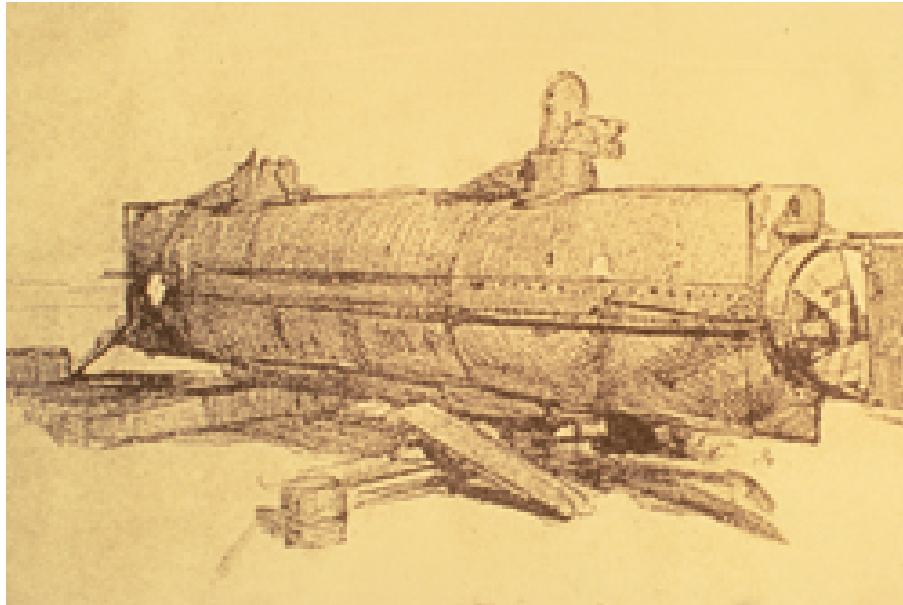


*Too long to fit on a standard 20' flat car, the "Hunley" was cradled and tied down on two flatcars for her trip from Mobile.  
Drawing adapted by C. King from sketch of Hunley by Caldwell C. Whistler and stock art of engine, coal car, and flatcars.*

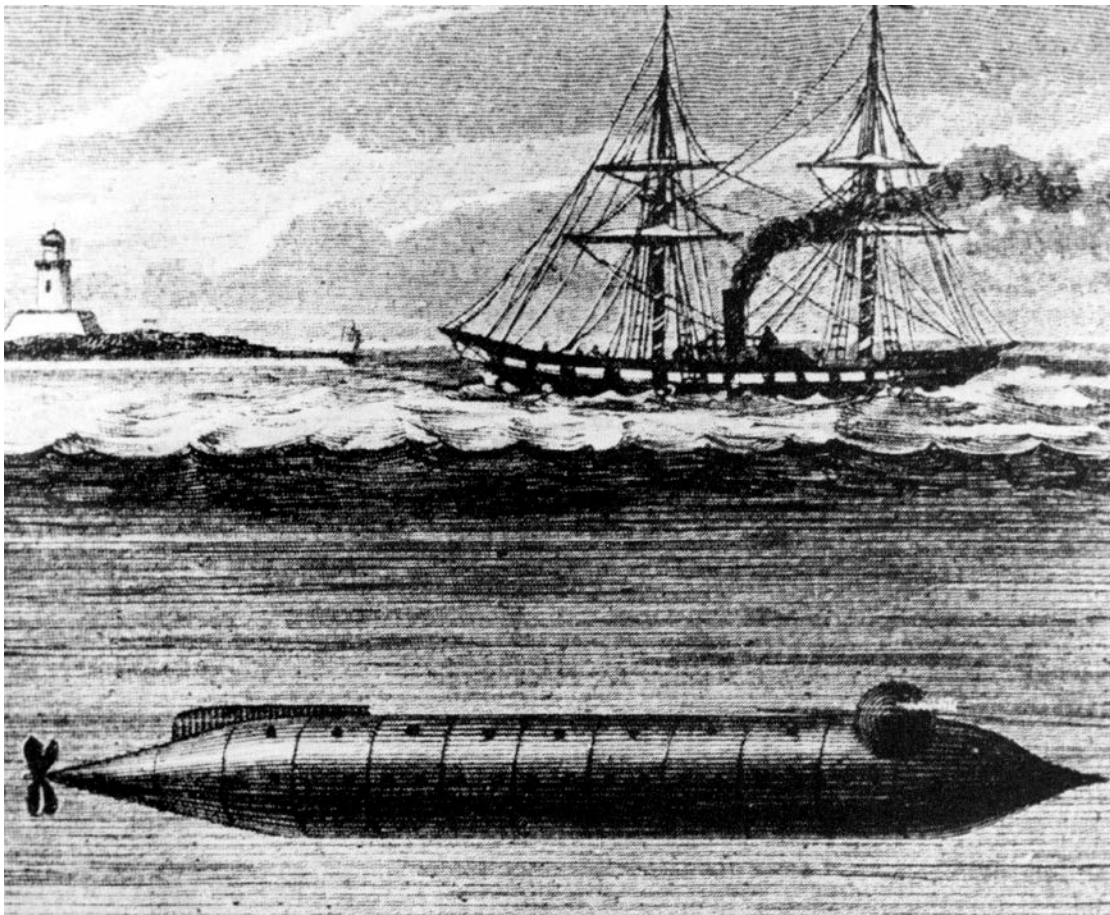
Transporting the H.L. Hunley by Rail to Charleston, S.C. (Hunley.org)



H.L. Hunley (Painting by Conrad Wise Chapman, 1863; Museum of the Confederacy)

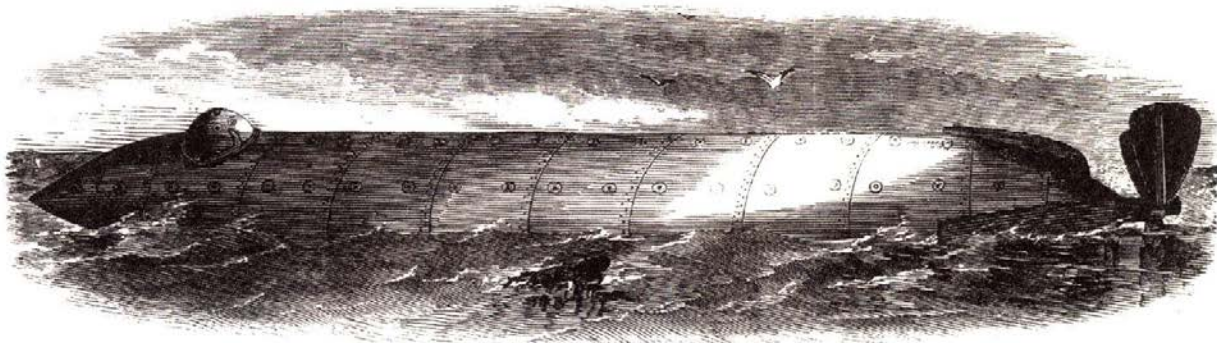


H.L. Hunley (Huntley.org)



USS Alligator (Chinfo.navy.mil)





DE VILLEROI'S SUBMARINE BOAT, SEIZED BY THE GOVERNMENT AT PHILADELPHIA, MAY 16TH, 1861.—FROM A SKETCH BY OUR SPECIAL ARTIST.

Villeroi's original design of the Alligator ([noaa.gov](http://noaa.gov))



Naval Station at Mound City, IL (1861)

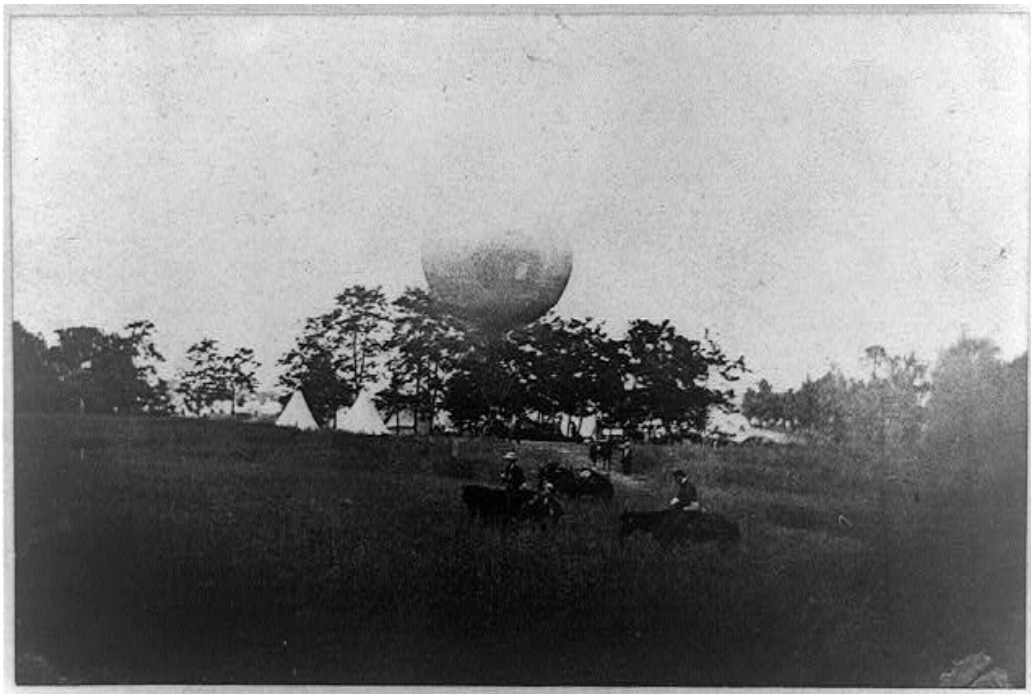




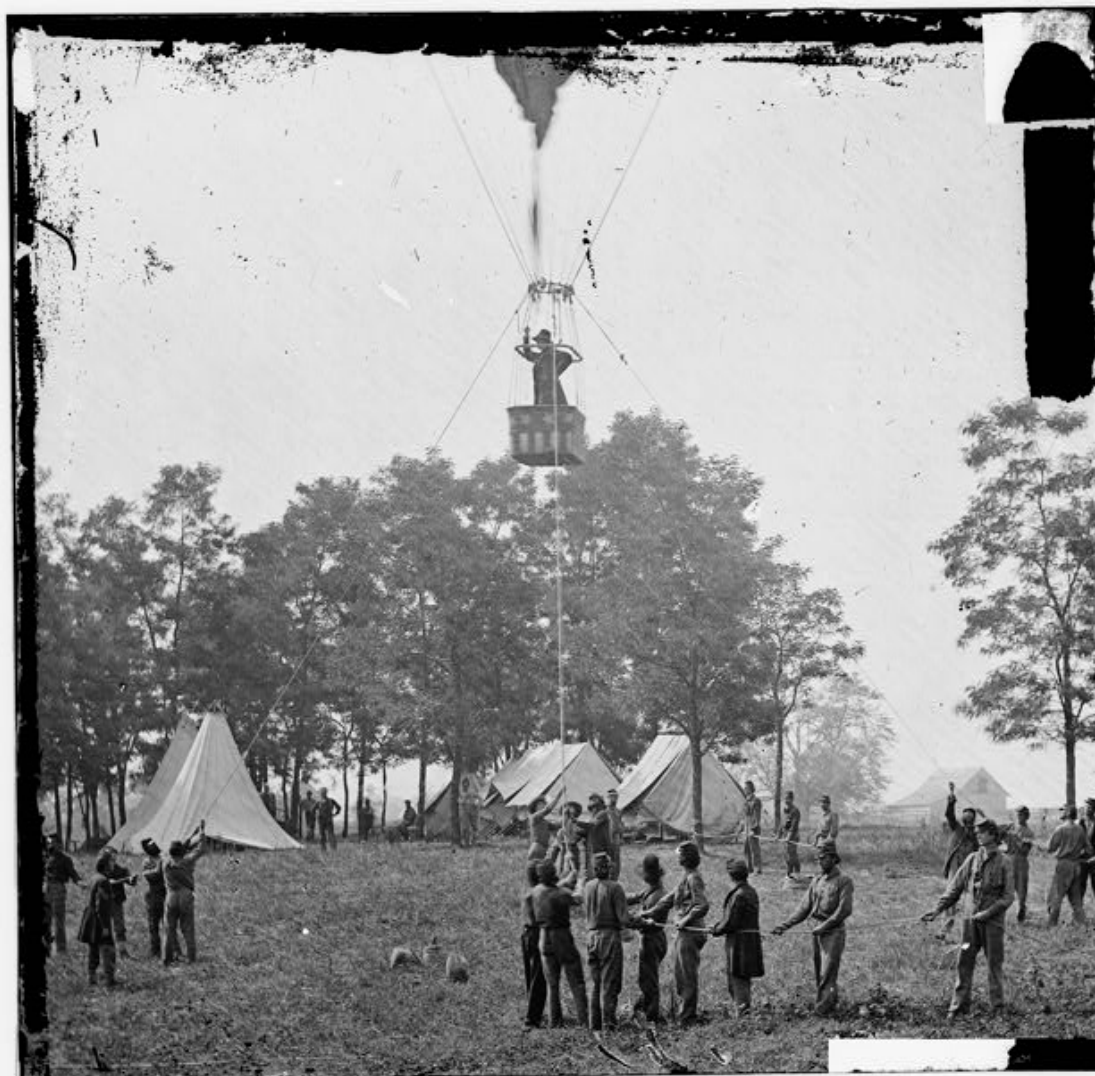
The Mississippi River Fleet at Mound City, IL (1861)



US Gunboats DeKalb, Mound City, and Cincinnati (sic) (1861)



Prof. Thaddeus Lowe's "Balloon Camp" at Gaines Mill, Va. (1862)



Fair Oaks, Va. Prof. Thaddeus S. Lowe Observing the battle from his balloon "Intrepid" (1862)

# THE MAGNETIC TELEGRAPH COMPANY. PRINTING AND MORSE LINES.

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J. KENDALL, Gen'l Sup't.

145 BROADWAY, N. Y.

E. S. SANFORD, Pres't.

145 BROADWAY, N. Y.

Dated *Balloon Enterprise* 1861.

~~June~~ Washington, *June 16* 1861, *10* o'clock, *10* min. M.

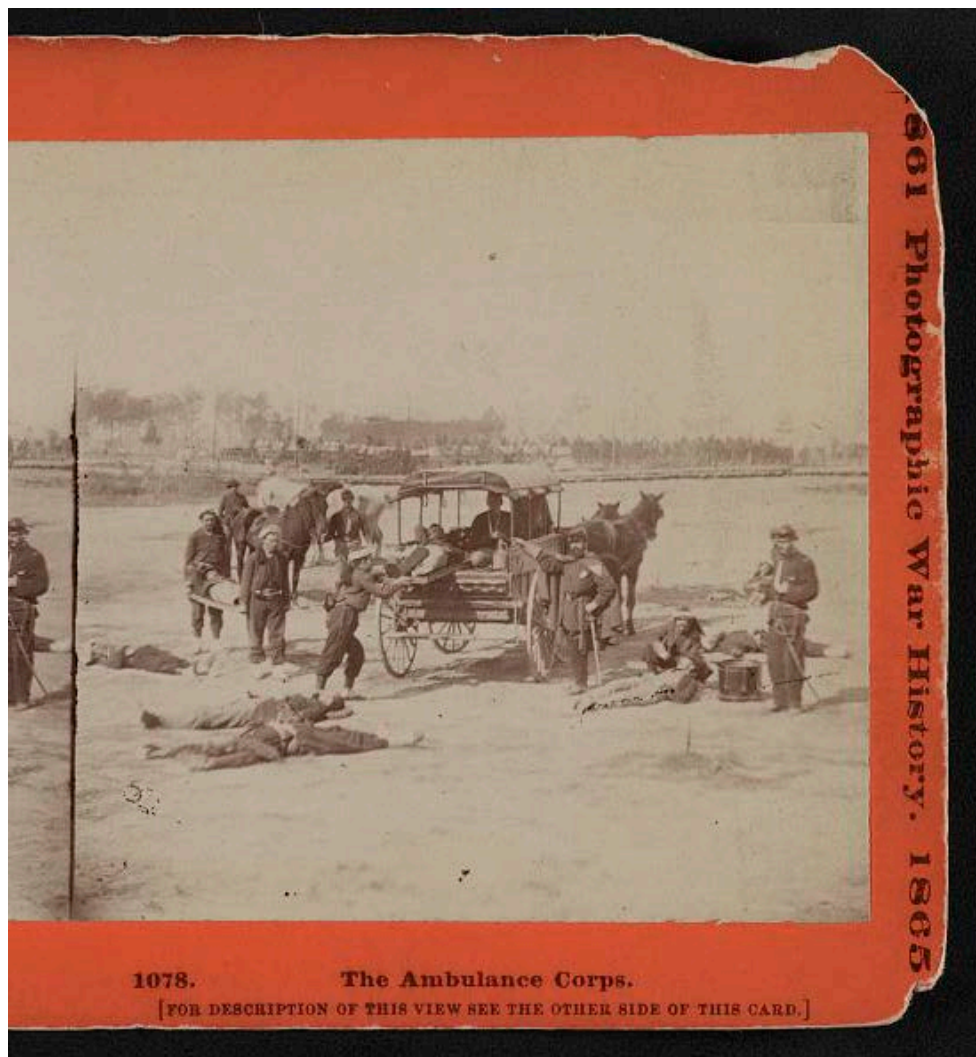
To *President United States*

*This point of observation commands  
an area near fifty miles  
in diameter—The city with  
its girdle of encampments  
presents a superb scene—  
I have pleasure in sending  
you this first dispatch ever  
telegraphed from an aerial  
station and in acknowledging  
indebtedness to your encouragement  
for the opportunity of demonstrating  
the availability of the science of  
aeronautics in the military  
service of the Country* T. S. C. Lowe

19315

June 16 1861: This point of observation commands an area near fifty miles in diameter-- The city with its girdle of encampments presents a superb scene-- I have pleasure in sending you this first dispatch ever telegraphed from an aerial station and in acknowledging indebtedness to your encouragement for the opportunity of demonstrating the availability of the science of aeronautics in the military service of the country -T. S. C. Lowe





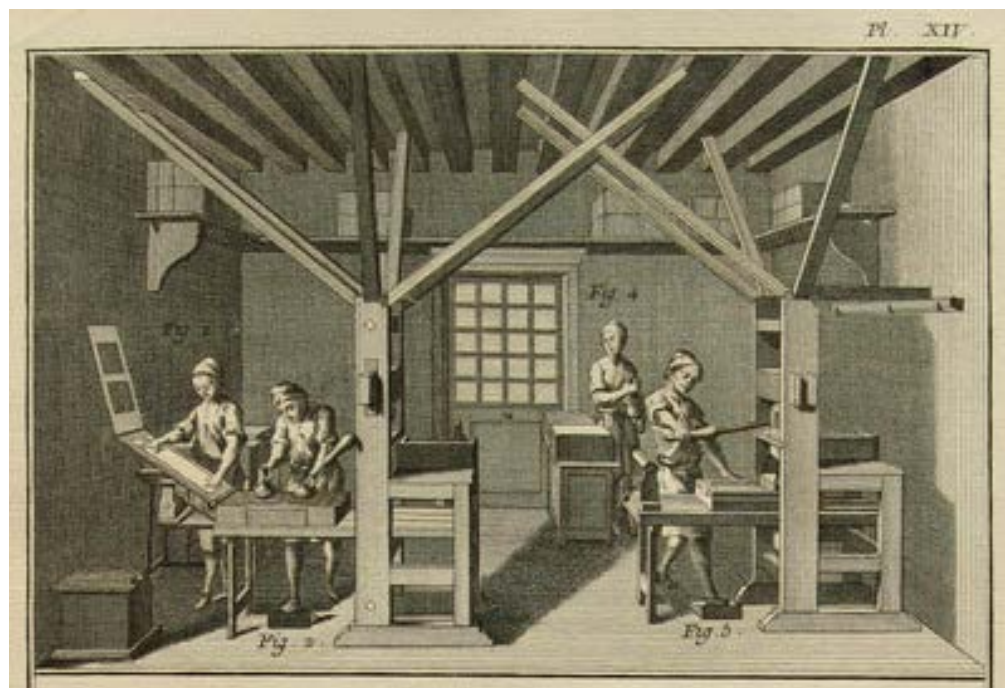
The Ambulance Corps (1861)



Ambulance Train, 1<sup>st</sup> Division, 2<sup>nd</sup> Army Corps (1861)

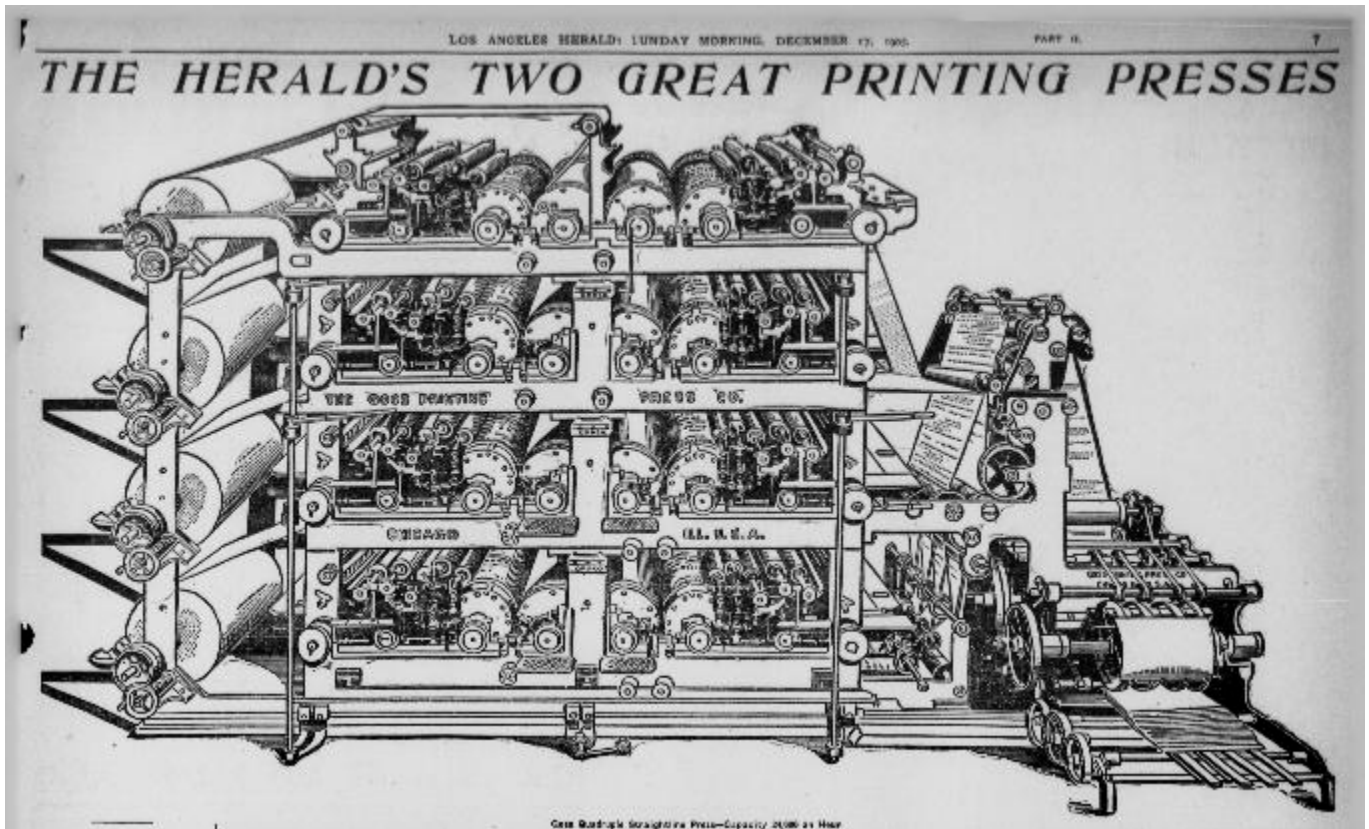


Falmouth, Va. Men and wagons of the Engineer Corps ambulance train (1863)

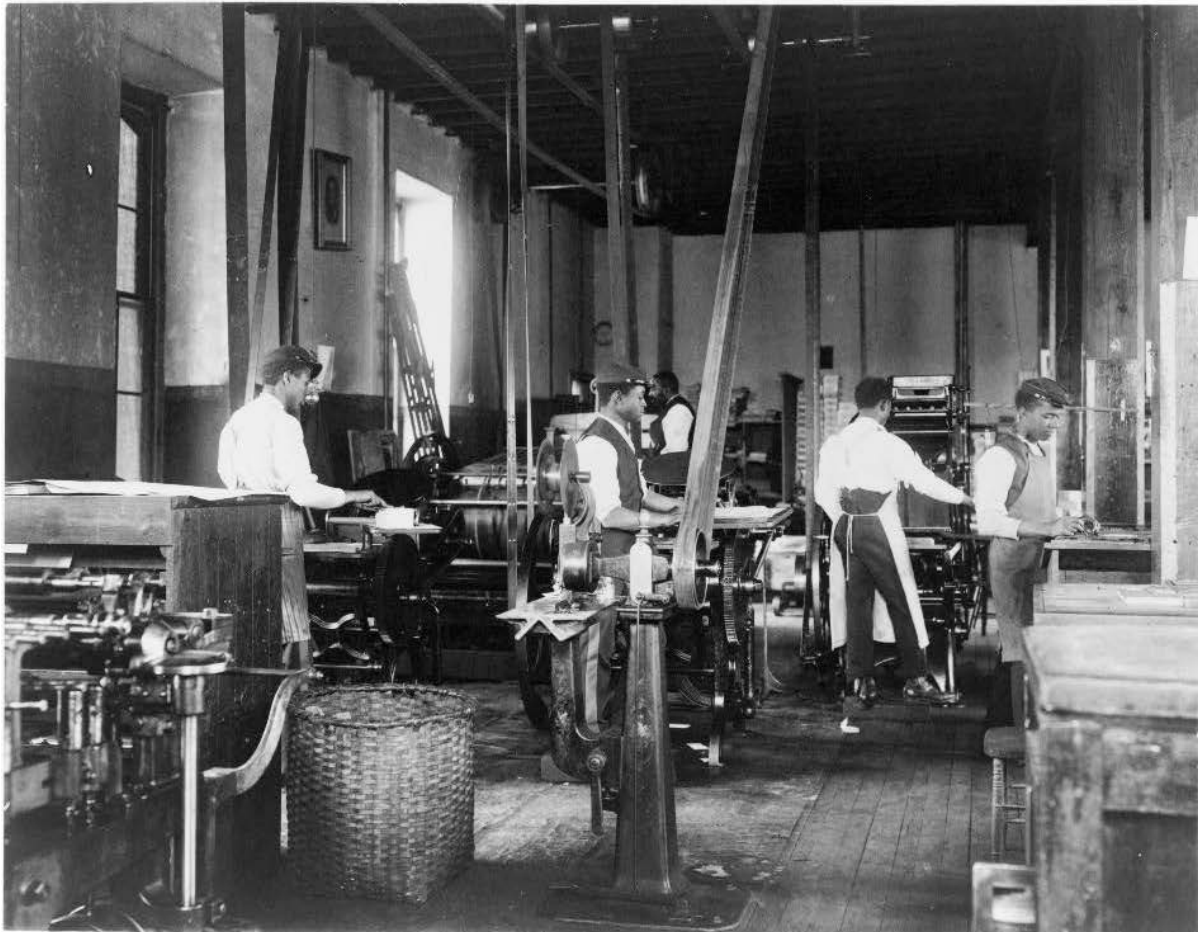


Printing Press (Oregon State University)





Los Angeles Herald (1905)



[Rotary] Printing Press (1899)

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ADOPTED BY

## The Electrotypers' and Stereotypers' Association,

— OF —

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Extra Charges will be made when Type Forms are not Locked up in Chases. Proof requested with all Type Forms, to avoid possible errors in plates.

The Price of Electrotype Plates, blocked on Wood, can be ascertained by placing the cut at the left-hand lower corner; the figures at the opposite diagonal corner will give the price in cents.

**BOOK WORK.** 1½ cents per square inch, measuring back of plate. Minimum price, 12c. per page. Sixteen pages to be considered a book. Less than sixteen pages charged at 1½c. per square inch. Minimum price, 12c.

**BOOK PAGES.**—(Not blocked), containing half-tone cuts, not less than 1½c. per square inch. Minimum price, 18c.

**BLOCKING BOOK OR JOB WORK.**—On wood, ½c. per square inch. Minimum price, single block 10c.; two or more 5c. each. On cored metal, 3c. per square inch; on solid metal, 5c. per square inch. Minimum price, single block, 25c.; two or more, 18c. each.

**JOB WORK.**—Blocked on wood, scale price. Minimum price, 12c.; blocked on cored metal, double scale price; on solid metal, treble scale price. Minimum price, 24c. Not blocked, scale price, less 10 per cent. Minimum price, 12c.

**HALF-TONE CUTS.**—Blocked on wood, one and one-half scale price. Minimum price, 24c. each. Blocked on metal, triple scale price. Minimum, 36c. Not blocked, one and one-half scale price, less 5 per cent. Minimum price, 24c.

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**TIME WORK.**—60c. per hour.

1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40	2.44	2.48	2.52	2.56	2.60	2.64	2.68	2.72	2.76	2.80	2.84	2.88	2.92	2.96	3.00	3.04	3.08	3.12	3.16	3.20	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.56	3.60																																							
1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.43	1.47	1.51	1.55	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62																																				
1.08	1.12	1.16	1.20	1.23	1.27	1.31	1.35	1.38	1.42	1.46	1.50	1.53	1.57	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93	1.97	2.01	2.05	2.09	2.13	2.17	2.21	2.25	2.29	2.33	2.37	2.41	2.45	2.49	2.53	2.57	2.61	2.65	2.69	2.73	2.77	2.81	2.85	2.89	2.93	2.97	3.01	3.05	3.09	3.13	3.17	3.21	3.25	3.29	3.33	3.37	3.41	3.45	3.49	3.53	3.57	3.61																																		
1.02	1.05	1.09	1.12	1.15	1.19	1.23	1.27	1.30	1.33	1.37	1.41	1.45	1.48	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63																															
95	98	1.01	1.05	1.09	1.12	1.15	1.19	1.23	1.26	1.29	1.33	1.37	1.40	1.43	1.47	1.51	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62																													
87	91	94	97	1.00	1.04	1.08	1.11	1.15	1.18	1.22	1.25	1.28	1.31	1.35	1.38	1.41	1.45	1.48	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63																										
81	84	87	91	94	97	1.00	1.04	1.07	1.10	1.13	1.17	1.20	1.23	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63																							
75	78	81	84	88	91	94	97	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.21	1.25	1.28	1.31	1.34	1.38	1.41	1.44	1.47	1.50	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62																					
69	72	75	78	81	84	87	90	93	96	99	1.02	1.05	1.08	1.11	1.14	1.17	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.50	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62																		
63	66	69	72	74	77	80	83	86	89	92	95	98	1.01	1.04	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.50	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62															
57	60	63	66	69	71	74	77	79	82	85	88	90	93	96	99	1.01	1.04	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.50	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62												
52	55	57	60	63	65	68	71	74	76	78	81	84	87	89	91	94	97	99	1.02	1.05	1.07	1.10	1.12	1.15	1.18	1.20	1.23	1.26	1.29	1.32	1.35	1.38	1.41	1.44	1.47	1.50	1.54	1.58	1.62	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.46	2.50	2.54	2.58	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26	3.30	3.34	3.38	3.42	3.46	3.50	3.54	3.58	3.62									
48	50	52	55	58	60	62	65	68	70	72	75	78	80	82	85	88	90	92	95	98	1.00	1.02	1.05	1.08	1.10	1.12	1.15	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63						
44	46	48	50	52	54	57	59	61	63	66	68	70	73	76	78	80	83	86	88	90	92	95	97	99	1.02	1.04	1.07	1.10	1.12	1.15	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63			
38	40	42	45	47	49	51	54	57	59	61	63	65	67	69	72	74	76	78	81	83	85	87	90	92	94	96	99	1.02	1.04	1.07	1.10	1.12	1.15	1.18	1.21	1.24	1.27	1.30	1.33	1.36	1.40	1.43	1.46	1.49	1.52	1.56	1.60	1.63	1.67	1.71	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.27	2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63
34	36	38	40	42																																																																																														



EXHIBITION  
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LEFT-HAND PENMANSHIP.

\$1,000 DOLLARS IN PRIZES.

[This collection of nearly three hundred Manuscripts, written by Soldiers and Sailors who lost their right arms during the late war, was made in response to an offer of prizes for the best specimen of Left-hand Penmanship, proposed by the Editor of the "SOLDIERS' FRIEND," New York.]

COMMITTEE OF AWARD.

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WILLIAM E. DODGE, Jr.,  
HOWARD POTTER,  
THEODORE ROOSEVELT,  
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LETTER OF MAJOR-GENERAL O. O. HOWARD.

WAR DEPARTMENT, BUREAU OF REFUGEES, FREEDMEN AND ABANDONED LANDS, }  
Washington, February 27th, 1866. }

REV. DR. H. W. BELLOWS—*My Dear Sir:* I am grateful to you for the kind letter just received from you, and hasten to reply. I was invited to write for the prize, but for two reasons I abstained. First, I was too deeply engrossed in my present peculiar work, and secondly, I was conscious of my inability to write a fair hand. However, my penmanship is quite as good as that formerly with the right hand.

I heard a lady in the cars lately detailing the sufferings, mortification and repinings of a young man who had lost his right arm in the service. He said at first everybody received him kindly, showed him sympathy, and gave him aid, but now it had come to be an old story, and he received no special attention and found it difficult to find a position where he could gain a livelihood.

I will say to you, my dear sir, that there are times when the deformity and inconvenience come across the mind, and disturb the equanimity of those who are full of ambition to make the best of whatever befalls. I do not believe that even the plaudits of a grateful people, or the conscious pride arising from the glorious rewards bestowed upon patriotic efforts, will be enough to sustain the one-armed man so as to make him cheerful, hopeful, and happy at all times, so as to enable him to forget all the nervous pains and sensitive feelings that constantly assail him.

My only prescription is a complete surrender of the heart to Christ.

Affectionately,

O. O. HOWARD, *Major-General.*

(From the William Oland Bourne Papers)