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**Air Ship Patents
Manuscript Group 31**

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Air Ship Patents, Manuscript Group 31
Indiana University of Pennsylvania, Special Collections and University Archives
2 boxes; 1 linear foot

Biographical Note

Any and all information containing such ideas for, or improvements of, airplane mechanics inside the U.S. had to be drawn up and filed at the United States Patent Office.

Scope and Content

The [Air Ship Patents Collection](#) is housed in two archival boxes. These papers include patents for air balloons, flying machines, aerial navigation equipment, and other aerial inventions. The patents date from 1844 to 1903 prior to the Wright Brothers flight at Kitty Hawk, North Carolina. Most contain a detailed sketch of the product and a letter of patented certification. This collection has been digitized as part of the [D-Space project](#).

Provenance

Unknown.

Restrictions

None.

Processor

Date unknown; records arranged and inventory written by Special Collections Staff.
Spring 2001; records rearranged and inventory rewritten by Special Collections Staff.
Spring 2008; records rearranged and inventory rewritten by Special Collections Staff.
Summer 2009; records rearranged and inventory rewritten by Special Collections Staff.

Container List

Box 1 (87 folders) U.S Air Ship Patents

1. M. Muzzi, Flying Machine, October 16, 1844
2. Hugh Bell, Balloon 3, March 26, 1850
3. J.W. Brewer, Balloon, July 11, 1854
4. James P. Gage, Balloon, March 8, 1859
5. M. Nelson, Aerial Car, May 21, 1891
6. L.C. Crowell, Aerial Machine, June 3, 1862
7. Thomas L. Shaw, Balloon, February 10, 1863
8. James H. Connell, Air Balloon, November 17, 1863
9. Solomon Andrews, Aerostat, July 5, 1864
10. A.G. Wright, Balloon, December 27, 1864
11. John Wootten, Flying Machine, May 22, 1866
12. Chester W. Sykes, Improved Marine Balloons, September 11, 1866
13. W. F. Quinby, Improved Flying Machine, September 10, 1867
14. Zaphna Stone, Aerial Navigator, May 12, 1868
15. Onofrio Abruzo, Aerial Car, July 21, 1868
16. Frederick Marriott, Aerial Steam Car, November 23, 1869
17. Martin Braun, Improved Aerial Ships, February 8, 1870

18. A.P. Keith, Aerial Car, March 1, 1870
19. Edward Oakes , Aerial Car, August 30, 1870
20. Isaac W. Forbes, Aerial Cars, July 16, 1872
21. Paul Haenlein, Improved Balloon Locomotio, August 27, 1872
22. Watson F. Quinby, Improved Flying Apparatus, October 8, 1872
23. Charles McDermott, Improved Nav. Apparatus, November 12, 1872
24. T. Moy and E. Shill, Navigation Apparatus, November 26, 1872
25. Thomas Green, Navigating Apparatus, August 12, 1873
26. Otto Francis, Navigating Apparatus, February 10, 1874
27. C. B. Wainwright, Steering & Propelling App., March 24, 1874
28. Lewis A. Boswell, Improved Propeller-Wheels, April 4, 1874
29. James Hartness, Balloons, May 19, 1874
30. C.F. McGlashan, Guiding Balloons, June 16, 1874
31. Daniel L. Rhone, Aerial Boats, June 23, 1874
32. Micajah Dyer, Navigating Apparatus, September 1, 1874
33. L. A. Boswell, Aerial Propeller Wheels, September 22, 1874
34. Felix LeBlanc, Aerial Vessels, October 27, 1874
35. Peter B. Fernandez, Aerial & Marine Gyrator, April 6, 1875
36. F. X. Lamboley, Flying Machine 37, August 15, 1876
37. John B. Ward, Aerial Machine, December 19, 1876
38. Frank Barnett, Flying Machine, May 15, 1877
39. Washington Beckley, Balloon, July 17, 1877
40. M.M. Murrell, Aerial Navigators, August 14, 1877
41. J.J. Pennington, Flying Machine, September 4, 1877
42. John B. Ward, Aerial Machine, October 2, 1877
43. Fritz A. L. Von Ehren, Aerial Vessels, January 15, 1878
44. C.F. Ritchel, Improved Flying Machine, March 12, 1878
45. William F. Pearson, Balloon, April 23, 1878
46. Richard W. Cowan, Aerial Paddle-Wheel, May 28, 1878
47. James Tracy, Balloon, June 25, 1878
48. J.F. Cameron, Air Ship, November 26, 1878
49. Henrey Badgley, Aerial Machine, April 22, 1879
50. Watson F. Quinby, Aerial Ship, August 12, 1879
51. J.J. Greenough, Aerobat, October 14, 1879
52. Albert L. Blackman, Aerial Nav. Vess. & Machine, February 17, 1880
53. Charles A. Sullivan, Flying Machine, November 30, 1880
54. F. W. Brearey, Aerial Apparatus, November 30, 1880
55. John F. Mackenzie, Aerial Navigation, December 21, 1880
56. E.A. Pearse, Aerial Navigation Machine, January 11, 1881
57. William Beeson, Flying Ship, August 16, 1881
58. Edward De Jongh, Aeronautic App. & Regulator, September 13, 1881
59. Albert L. Blackman, Aerial Navigation Vessel, December 6, 1881
60. William G. Krueger, Air Ship, January 31, 1882
61. Charles P. Fest, Balloon, April 4, 1882
62. Carl W. Petersen, Air Ship, April 11, 1882
63. James A. Nisonger, Shifting rail for vehicles, May 23, 1882

64. Charles P. Fest, Air Ship, August 29, 1882
65. R.L. Downton, Aerial Ship, September 12, 1882
66. Joel Ray, Aerial Vessel, January 2, 1883
67. E.F. Falconnet, Aerial Ship, January 23, 1883
68. John W. Emsley, Balloon, April 17, 1883
69. Gustav Koch, Air Ship, August 7, 1883
70. Kansas D. Davis, Balloon Propeller, January 15, 1884
71. Charles P. Fest, Air Ship, March 18, 1884
72. G. Wellner, Wedge-shaped Air Balloon, December 2, 1884
73. Eugene. F. Falconnet, Vessel for Aerial Navigation, February 10, 1885
74. Anton Spier, Air Ship, June 9, 1885
75. David Stout, Aerial Ship, June 9, 1885
76. Frederich W. Brearey, App. for Effecting Aerial Nav., June 16, 1885
77. Joseph S. Foster, Air Ship, June 23, 1885
78. Nicholas Helmer, Air Ship, October 13, 1885
79. Hurgar Hunnicutt, Aerial Ship, January 26, 1886
80. Levi A. Beardsley, Ship for Aerial Nav., March 2, 1886
81. Ringert Jongewaard, Aerial Navigation, March 16, 1886
82. William Patterson, Steam Air Ship, April 27, 1886
83. Augustin H. Hamon, Dirigible Aerostat, October 5, 1886
84. Moses S. Cole, Aerial Vessel, November 9, 1886
85. Moses S. Cole, Propelling Wheel, November 9, 1886
86. Marby P. Appling, Air Ship, November 23, 1886
87. Otto W. Hartung, Balloon, December 14, 1886

Box 2 (92 folders)

1. Martin Bruan, Aerial Ship, February 1, 1877
2. James M. Wheeler, Air Ship, April 19, 1887
3. Peter C. Campbell, Air Ship, May 10, 1887
4. Joseph Neubrand, Aerial Vessel, April 19, 1887
5. William Beeson, Aerial Navigation, April 26, 1887
6. C.R.E. Wulff, Propelling & Guiding App., May 17, 1887
7. W. N. Hutchinson, Aerial Vessel, October 18, 1887
8. Charles H. Morgan, Air Ship, November 22, 1887
9. William Beeson, Flying Machine, January 24, 1888
10. W. Gustafson, Aerial Navigation, February 21, 1888
11. B. Bontems, Aerial Navigation Apparatus, April 17, 1888
12. E. P. Johnston, Air Ship, June 5, 1888
13. John P. Holmes, Air Ship, February 12, 1889
14. C.A. Kunzel, Balloon, March 12, 1889
15. H.A.J. Rieckert, Air Ship, March 19, 1889
16. N. H. Borgfeldt, Flying Machine, October 1, 1889
17. David Thayer, Aerial Apparatus, December 24, 1889
18. Matthias H. Baldwin, Aerostat, March 25, 1890
19. John J. Pokorny, Air Ship, April 1, 1890
20. C. E. Bechtel, Air Ship, June 3, 1890

21. C. D. E. Hennig, Air Ship, June 17, 1890
22. Stewart Cairncross, Aerial Machine, July 22, 1890
23. Perham W. Nahl, Navigable Air Ship, October 28, 1890
24. Burr F. Barnes, Flying Machine, September 29, 1891
25. John Arbtin, Air Ship, November 3, 1891
26. Stewart Cairncross, Aerial Machine, December 8, 1891
27. James C. Walker, Air Ship, January 12, 1892
28. W. N. Riddle, Aerial Ship, April 19, 1892
29. Burr F. Barnes, Air Ship, July 12, 1892
30. Leon Gayon, Propeller, August 16, 1892
31. C. T. L. Gabriellii, Balloon Ship, June 27, 1893
32. Theodor Steinmann, Air Ship, July 11, 1893
33. S. B. Batten, Aerial Machine, July 25, 1893
34. A. F. Bergqvist, Aerial Vessel, October 17, 1893
35. C. F. Billwiller, Navigable Air Ship, October 31, 1893
36. Edwin Pynchon, Air Ship, November 14, 1893
37. Joachim A. Sumovski, Balloon, December 12, 1893
38. J. S. Preiswerk, Parachute Sail for Balloons, January 9, 1894
39. S. Spaeth, Aerial Vessel, February 6, 1894
40. Christopher G. Cross, Aerial Locomotive, March 13, 1894
41. George Wellner, Flying Apparatus, March 13, 1894
42. Duana Hurlbut, Air Ship, September 25, 1894
43. Hermann Ganswindt, Propeller for Aerial Vehicles, October 2, 1894
44. Nicholas H. Borgfeldt, Aerial Navigation Apparatus, December 4, 1894
45. Otto Lilienthal, Flying Machine, August 20, 1895
46. W. N. Hutchinson, Navigable Balloon, October 15, 1895
47. Manoel V. Coutinho, Aerostat, March 17, 1896
48. C. A. Smith, Air Ship, August 11, 1896
49. Frank Kline, Power Wheel, July 28, 1896
50. E.J. St. Croix, Air Ship, December 22, 1896
51. Henry Heintz, Air Ship, April 20, 1897
52. Carl E. Myers, Sky Cycle, April 20, 1897
53. Octave Chanute, Soaring Machine, May 18, 1897
54. Louis P. Mouillard, Means of Aerial Flight, May 18, 1897
55. Thomas M. Crepar, Air Ship, August 24, 1897
56. Daniel Reed, Air Ship, October 12, 1897
57. Jacob D. Graybill, Aerial Machine, October 26, 1897
58. James Richardson, Flying Machine, December 28, 1897
59. Theodore Leibbrand, Aerial Navigation, March 22, 1898
60. Adolph Koehler, Air Ship, June 7, 1898
61. F. A. Jone, Flying Machine, June 14, 1898
62. William P. Butusov, Soaring Machine, June 28, 1898
63. Charles E. Hite, Air Ship, July 12, 1898
64. Thomas J. Brown, Aerial Ship, September 13, 1898
65. Oscar L. Smith, Air Ship, October 18, 1898
66. R.H. Von Siegsfeld, Air Balloon, October 25, 1898

67. Frederick R. Merritt, Air Ship, December 6, 1898
68. F. Graf Zeppelin, Navigable Balloon, March 14, 1899
69. John F. Pickering, Air Ship, February 20, 1900
70. Louis Etienne Roze, Flying Machine, May 1, 1900
71. Charles Stanley, Air Ship, October 9, 1900
72. Leo Stevens, Controllable Balloons, November 13, 1900
73. J.H. Dillon-Gregg, Aerial Navigation Machine, January 22, 1901
74. A. F. Hubbard, Air Ship, February 19, 1901
75. Eugene M. Farr, Aerial Vessel, July 9, 1901
76. Walter J. Bell, Wing for Flying Machine, February 25, 1902
77. Frederick W. Dufwa, Blade for Air Ship, March 4, 1902
78. Charles Groombridge, Propeller for Air Ship, April 8, 1902
79. Joel T. Rice, Flying Machine, July 8, 1902
80. Ernest R. Krockner, Air Ship or Vessel, November 4, 1902
81. E. P. Johnston, Air Ship, March 10, 1903
82. John Berry, Air Ship, March 24, 1903
83. Thor Michelsen, Air Ship, April 21, 1903
84. Otto A. Kaehler, Flying Machine, May 5, 1903
85. L. A. Boswell, Steering for Dirigible, May 26, 1903
86. Geo. D. Shultz, Aerial Vessel, June 2, 1903
87. Theodor Gibon, Aeroplane, June 2, 1903
88. A. F. Godefroy, Means for Propelling Vessels, June 9, 1903
89. Isaac I. Morris, Aerial Navigation Machine, September 1, 1903
90. C. E. Van Devanter, Aerial Navigation Apparatus, October 13, 1903
91. Eugene F. Falconnet, n.d.
92. Charles H. Morgan, Aerial Ship, n.d.