

Index

- Adams, John Quincy, 11
Allen, John, 4, 6, 7
American Industrial League, 143
Anti-Mason Party, 12
Astronomical Compass, Burt's, 92, 93
Astronomical transit, 111, 112, 152, 173
- Babbage, Charles, 166
Bache, A. D., 33, 34, 130, 149, 150, 158, 171, 173
Bailey, John A., 93, 114, 124, 125, 165
Baltic, Steamship, 101
Battle Creek, MI, 11
Bay de Noquette and Marquette Railroad, 135
Beaumont, Gustave de, 45
Bingham, Kinsley S., 121, 135, 171
Bonney, 57, 63
Booth, Caleb H., 85, 96, 166
Broadalbin, NY, 4
Brooks, John W., 121
Brooks, Preston S., 131, 132
Brown, J. Vernon, 110, 113, 121, 123
Burnham, Hiram, 29, 30, 158
Burt, Abel³, 1, 175
Burt, Abel⁴, 1, 175
Burt, A. Judson⁹, 139, 182
Burt & Allen, Millwrights, 4, 7
Burt, Alvin⁶, 1-4, 175
Burt, Alvin⁸, 5, 9, 26, 28, 38, 47, 55, 57, 65, 67, 82, 160, 161, 163
Burt, Alvin⁹, 107, 140, 172, 173, 182
Burt, Austin⁹, 7, 9, 23, 28, 47, 66, 67, 75, 77, 79, 82, 95, 117, 137, 139, 140, 147, 156, 158, 159, 166, 168, 169, 175, 176, 179, 180
Burt, Austin¹⁰, 21, 157, 161, 162, 179
Burt & Bailey, 124, 129, 136, 170
Burt Block, 139, 141, 142, 172
Burt Brothers, 139-143
Burt Coat of Arms, 2
Burt Freestone Co., 139, 142
Burt, George⁵, 2, 3
Burt, Hiram⁹, 107, 139, 147, 149, 157, 166, 172
Burt, Horace E.⁹, 57, 137, 155, 156, 169, 172, 176
Burt, John⁸, 9, 28, 47, 52, 55, 65, 66, 67, 75, 76, 79, 81, 92, 95, 106-110, 112, 113, 117, 121, 124, 133-135, 139-151, 153, 163-169, 171-173, 175, 178, 179, 182
Burt, J. & W., 124
Burt Lake, 152, 153, 173
Burt Mine, 115, 135, 140, 142, 153
Burt Mountain, 115, 152, 153, 174
Burt, Phebe, 4, 9, 20, 26, 30, 47, 57, 86, 136, 137, 157, 158, 160, 161, 162, 165, 166, 167, 168, 171, 172, 177
Burt, Richard¹, 1, 175
Burt, Richard², 1, 175
Burt, Sally, 3
Burt Township, 152, 153, 173
Burt & Watson, 124, 136
Burt, W. Clayton, 172
Burt, Wealthy, 2, 175
Burt, Wells⁸, 7, 47, 57, 67, 72, 77, 79, 81, 84, 95, 109, 115, 117, 139, 140, 147, 175, 180, 182
Burt, William⁸, 13, 47, 79, 81, 82, 95, 96, 115, 117, 124, 139, 140, 142, 147, 162, 165, 168, 170, 175, 181, 182
Burt, William Austin⁷, 2-23, 26-40, 43-52, 54-88, 91-105, 111-118, 124, 126-132, 135-137, 147-178, 182
Burt, William Austin², 139
Butler, Andrew Pickens, 131
Butler, Nathan, 126, 170
Butterfield, Justin, 81, 82, 84, 85, 86, 94, 98, 104, 105, 111-113, 164-169
- California gold, 81, 83, 152
California Surveyor General's seal, 105
Calkins, Elisha, 133, 135, 171
Calkins, Julia, 107, 167
Calkins, Lydia, 167
Calumet and Helca Mines, 150, 173
Canal lock invention, John Burt's, 145, 146
Canfield, Captain Augustus, 113
Cannon, George, 155, 156, 157, 164
Carp River Forge, 107

Carp River Iron Co., 117
 Cascade, IA Territory, 57, 67
 Cass, Louis, 7, 43, 81, 86, 87, 101, 113, 118, 167
 Central Pacific Railroad, 150
 Chalets, The Burts', 67, 70-73, 162
 Chapman, Leander, 165
 Chicago (IL Territory), 28
 Chippewa Indians, 45, 55, 63
 Churchman, John III, 91
 Cincinnati, OH, 6
 Clason, Lewis, 45, 159
 Clay, Henry, 12, 110
 Cleveland-Cliffs Iron Co., 79, 172
 Cleveland Iron Co., 109, 115
 Cobb, Howell, 91
 Cole, John & Sarah, 4
 Colt, Samuel, 103, 131, 132, 171
Columbia, 121
 Compass, Burt's solar, 38, 39, 47, 49, 50, 52, 55, 56, 58, 60, 61, 64, 65, 70-72, 77, 80-82, 84-88, 91, 92, 93, 96, 98, 99, 102-105, 109, 111-115, 124-127, 129-132, 135, 137, 147, 149, 150-152
 Compass, Burt's variation (solar), 31-34, 37-39
 Compass, magnetic, 25-27, 29-34, 37, 55, 58, 70, 80, 85, 91, 92, 98, 104, 105, 112, 124, 126, 152
 Copper lands of Michigan, 47, 53, 54, 60, 63, 66, 79, 161, 162, 173
 Cram, Captain Thomas, 75, 76
 Crystal Palace, London's, 99-102, 166

 Densmore, James, 149
 Detroit (MI Territory), 6, 7, 8, 9, 13, 28
 Detroit Free Press, 13
 Detroit Gazette, 9, 13, 14
 Detroit & Marquette Iron Co., 142, 182
 Detroit & St. Joseph Railroad, 28
 Dewey, William, 96
 Dexter, Samuel W., 12

 Elmwood Cemetery (Detroit), 137, 171
 Ely, George, 117
 Ely, Herman B., 109, 113, 115, 117, 135
 Ely, Samuel, 115, 117, 135, 169

 Equatorial Sextant, Burt's, 128-130, 136, 149, 150, 171
 Erie Canal, 5, 11
 Everett, Philo M., 63, 64, 162

 Felch, Alpheus, 86, 88, 91, 92, 98, 110, 112, 113, 157, 165, 166, 167, 168
 Fillmore, Millard, 110
 Fitzhugh, John, 126
 Five Million Dollar Loan, 40, 55
 Fletcher, Joseph, 7
 Fort Meigs, 6
 Fort Wayne, 6
 Foster, J. W., 112, 166, 168, 169
 Foster & Whitney, 95, 98, 166, 168
 Franklin Institute, 33, 38, 50
 Freehold, NY, 3, 4

 General Land Office (GLO), 28, 50, 51, 52, 56, 75, 76, 77, 81, 82, 83
 Geological survey of Michigan, 47, 53, 54, 55, 82, 160, 161, 162
 Geological-linear survey "with reference to mines & minerals," 57, 60, 65-69, 77, 79, 161, 162, 163
 Gibbs, W., 77, 79, 163
 Glidden, Carlos, 149, 158
 Gogebic iron range, 162
 Goodyear, Charles, 103
 Grace Furnace, 142
 Grant & Crosman, 124, 170
 Grant, Ulysses S., 143
 Graveraet, Robert J., 107
 Greater Washington Historical Society, 174
 Greeley, Horace, 101, 103, 166
 Gurley, W. & L. E., 80, 152, 170,

 Haines, Ezekiel S., 38, 39, 45, 47, 50, 52, 54, 55, 160, 161
 Hall of Fame of Great Americans, 174
 Harvey, Charles T., 114, 115
 Herschel, Sir John, 103
 Higgins, Hiram, 66

Higgins Lake, 82, 164
 Higgins, Sylvester, 77, 82
 Hough, Benjamin, 6
 Houghton, Douglass, 47, 53, 54, 57, 58, 60,
 65, 66, 68, 79, 160-163
 Houghton, Jacob, 57, 58, 60, 160, 161, 162
 Houghton, MI, 66
 Hubbard, Bela, 66, 162, 163
 Hulbert, Edwin J., 150
 Huntington, Elisha, 55

Illinois, 57, 121, 129
 Independence, 75
 Instructions, General surveying, 26, 29, 31,
 47, 55, 84, 96
 Instructions, Manual of Surveying, 125,
 126, 131, 170
 Instructions, 1850 Michigan General, 96, 97, 166
 Instructions, 1851 Oregon General, 104, 105,
 112, 113, 125, 126
 Iowa-Minnesota boundary survey, 111, 112,
 168
 Iowa-Missouri boundary survey, 96
 Iowa Surveys, 35-37
 Iron Mountain Railroad, 109, 115, 121, 135
 Iron ore, 29, 30, 46, 54, 56-66, 109, 110,
 161, 162, 172, 174
 Ives, Butler, 150, 173
 Ives, William, 57, 58, 60, 62, 104, 105, 161,
 173, 174

Jackson, Charles T., 77, 162, 174
 Jackson Iron Co., 60, 63, 64, 109, 162, 168
 Jackson Mining Co., 63, 64, 107
 John Burt House, 139, 141, 171
 Jones, George W., 67, 163
 Juneau, Solomon, 28

Kansas-Nebraska bill, 117
 Keitt, Lawrence M., 131, 132
 Key to the Solar Compass, 126, 127, 170, 172,
 173
 King, Samuel, 105

Lac Vieux Desert, 74, 76
 Lake Superior Iron Co., 107, 115, 116, 117, 135,
 139, 140, 142, 153, 172
 Lake Superior Journal, 123
 Lake Superior Mining Journal, 123
 Lake Superior News, 66, 67
 Land Ordinance of 1785, 24-26
 La Pointe, Treaty of, 55
 Lawton, Charles D., 150
 Lincoln, Abraham, 29, 30, 81, 91, 164, 165
 Locke, John, 98, 166, 174
 London's 1851 Great Exposition, 99-103, 166
 Lyon, Lucius, 7, 23, 24, 28, 29, 35, 37, 38, 43, 52,
 56, 65, 66, 70, 71, 72, 75, 81, 82, 83, 84, 88, 93,
 94, 96, 155-160, 162-166
 Lyon, Orson, 35
 Lytle, Robert, 30, 45, 158, 159, 160

Mackinaw, MI, 57, 58
 Mail service, U.S., 6, 21, 23, 123
 Marji-Gesick, Chief, 63, 64, 162
 Marquette Brownstone Co., 142
 Marquette breakwater, 138, 140
 Marquette County Historical Society, 140
 Marquette Furnace Co., 142, 182
 Marquette iron range, 57-67, 79, 107, 109, 152,
 154, 161, 162
 Marquette, MI, 107, 108, 121, 125, 135, 138-144,
 146, 171, 172, 182
 Marquette & Pacific Rolling Mill Co., 140,
 141, 182
 Marsh, James M., 111, 112
 Martin, E. C., 75, 147
 Martin, Morgan, 37, 158
 Mason, Stevens T., 40
 Masonic Order, 12
 Maury, Matthew F., 130, 149, 170, 171, 173
 McCormick, Cyrus, 103
 McKnight, Sheldon, 110, 113
 McLeod, W. Norman, 57, 58
 Mellen, Harvey, 37, 57, 58
 Mellen, Richard, 57
 Menominee iron range, 162

Meridian, Fifth Principal, 35-37
 Meridian, Fourth Principal, 77
 Meridian, Michigan, 6, 47, 48
 Meridian, Willamette, 104
 Mesabi iron range, 152, 173
 Michigan Engineering Society, 147
 Michigan Farmer, 93, 123, 165, 166
 Michigan Historical Commission, 174
 Michigan Legislative Council, 11, 13
 Michigan's "internal improvements", 40
 Michigan Society Registered Land Surveyors, 47
 Michigan statehood, 33, 43, 44, 45
 Michigan's State Legislature of 1853, 113, 114
 Michigan State Line Historical Site, 77, 163
 Michigan, U.S.S., 60, 161
 Michigan-Wisconsin boundary survey, 57, 74-78, 163
 Miller, Hugh, 103
 Mill, Henry, 21, 22
 Mills, Construction of, 4, 6, 7, 9, 12, 23
 Milwaukee survey, 28-30
 Missouri Compromise, 117
 Monitor and the Merrimac, 149
 Monticello, 109
 Mt. Vernon, MI, 8, 23, 28, 30, 67, 107, 139
 Mullett, James H., 55, 79, 82, 83, 94, 147
 Mullett, John, 7, 11, 12, 23, 28, 29, 34, 50, 55, 56, 65, 79, 82, 83, 94, 95, 96, 97, 147, 153, 157, 162
 Mullett, John H., 147, 172
 Mullett Lake, 153

 National Inventors Hall of Fame, 174
 Negaunee, MI, 63, 64, 162
 Neitz, Leonard, 124, 170
 New York Commercial Advertiser, 14
 New York Herald, 101
 Nicholson, Henry, 82, 87, 94, 95, 164
 Noble, Charles, 84, 94, 165-168, 170
 Nolan, Lewis, 63
 Ontonagon bolder, 53, 54

 Parke, Hervey, 7, 9, 27-29, 35, 37, 155-158

 Patents received by William A. Burt, 14, 16, 18, 19, 33,34
 Patents received by John Burt, 143, 145, 146
 Patten, Richard, 56, 101, 161
 Paxton, Sir Joseph, 101
 Peninsular Iron Co., 117, 118, 139, 142
 Petersham, MA, 2, 3
 Pilkington, Margaret, 117, 169
 Poe, O.M., 146
 Poole, William C., 91, 165
 Pratt, John, 149
 Preston, John, 98, 104, 105, 167
 Prince Albert, 100, 101, 103

 Queen Victoria, 100-103

 Republic Mine, 79
 Revolutionary War, 1, 24
 Risdon, Orange, 81, 82

 Sam Ward, 75
 Sargent, George B., 111, 112, 168
 Sault Ste. Marie, MI, 47, 63, 75, 95, 107, 109, 110, 113, 114, 123
 Sax & Fox Indians, 55
 Schmolz, William, 152
 Scott (John) Legacy Medal, 33, 158
 Searles, Zelotes, 109, 156
 Sheldon, John, 13-16, 20, 21, 156, 159
 Shoenberger, Dr. Peter, 109, 121, 169
 Sholes, Christopher Latham, 149, 158
 Simpson, Thomas, 118, 169
 Smith, Benjamin H., 152
 Smith, Moses, 92, 165
 Smith, Truman, 110
 Soo Canal, 40, 54, 55, 109, 110, 112, 113-115, 121-123, 133-135, 146, 168, 169, 171, 172
 Soule, S. W., 149, 158
 Spalding, Cyrus, 21, 156
 St. Louis, MO Territory, 6
 St. Mary's Falls Ship Canal Company, 114
 Stockton, John, 11, 155
 Stony Creek (MI), 7, 8, 9
 Stony Creek Lake, 174

Stuart, Charles, 118, 130
 Sumner, Charles, 131, 132
 Sun dial, Burt's, 51
 Superior, 7, 9
 Survey inspector, 85

Talcott, Captain Andrew, 111, 112
 Taunton, MA, 1, 155
 Taylor, John, 57, 58, 63
 Taylor, Zachary, 81
 Teal Lake, 58, 59
 Tiffin, Edward, 6, 7, 11, 155, 156
 Tocqueville, Alexis de, 45
 Toledo strip, 43, 44
 Transit, Solar, 152, 173
 Transit, Surveyor's, 33, 71
 Traverse City, MI, 93
 Typographer, Burt's (typewriter), 13-22, 149, 156, 173

Union Fuel Co., 142, 146, 182
 U.S. Department of the Interior, 81

Van Buren, Martin, 14, 81
 Vanderbilt, MI, 96
 Variation of the compass, 25, 26, 27, 29, 31, 50, 58, 60, 96, 112, 126, 129, 149

Walbridge, David, 130-132
 Wales Center, N.Y., 4-7, 57
 Walker, R., 96
 Walk in the Water, 7
 Ward, Eber Brock, 110, 114, 167
 Ware, Henry, 38
 War of 1812, 4
 Washington, George, 3, 4, 12
 Washington, Treaty of, 45
 Webster, Kimball, 104, 167
 Weitzel Lock, 145, 146

Western Emigrant, 12
 Whig Review, 101
 Whitcomb, James, 45, 159
 Whitcomb, Rasselas Prince, 39, 56, 159, 161
 White, Peter, 110, 115, 121, 123, 139, 140, 161, 162, 167, 168, 169
 Whittlesey, Charles, 93, 98, 165, 166
 Williams, Micajah T., 23, 26, 28, 29, 30, 157
 Williams, Samuel, 11, 155, 162
 Wilson, John, 28, 84, 85, 92, 94, 111, 112
 Wiltse, Harry, 77
 Wing, Austin, 12, 159
 Winnebago Indian cession, 46
 Witness Tree, 95, 96, 163
 Woodbridge, William, 7, 40, 52, 54, 160

Young, Alfred, 137, 171
 Young, Richard M., 79, 163
 Young, William C., 127, 170
 Young, William J., 33, 34, 37-39, 50-52, 56, 65, 71, 72, 80, 92, 98, 99, 103, 104, 114, 129, 130, 149, 150, 158-60, 162-167, 169-171