

Brookshire, John, ship's pump	5191	Mattison, Charles Z., and G. W. Shaw, spinning machine	5268
Brumitt, Louis P., and S. Mohr, gravity battery	5211	Manville, Charles M., J. W. Johnson, S. W. Alvord, E. E.	
Bryant, George S., and S. Williams, mirling machine	5211	Bullington, L. B. Rodgers, E. R. Myer, I. Vosburg,	
Bullington, Edwin E., J. W. Johnson, C. M. Manville, S.		C. F. Nichols, and C. M. Dunlop, fanning mill	5182
W. Alvord, L. B. Rodgers, E. R. Myer, I. Vosburg,		Maxwell, David, straw cutter	5234
C. F. Nichols, and C. M. Dunlop, fanning mill	5182	Mayo, Israel C., culinary boiler	5232
Chatterton, Richard D., railway carriage coupling	5228	Meacom, George, cat-mental sack	5270
" " " " draw bars and		Miller, Jane A., and P. L. Downton, middlings purifier	5224
" " " " springs	5211	" " " " manufacture of mid-	
Clark, Charles B., brush, cloth and mop holder	5226	" " " " dlings flour	5225
" " " " lock hinge	5235	Mohr, Sigismund, and L. P. Brunelle, gravity battery	5244
Colvix, Verplank, portable boat	5210	Moody, Henry C., children's carriages	5208
Commis, John, fire kindler	5169	Muirhead, Walter, and J. H. Killey, steam boiler	5242
Cook, George W., and E. H. Horsey, car truck	5203	Myer, Elijah R., C. M. Manville, J. W. Johnson, S. W.	
Copeland, George W., boots and shoes	5235	Alvord, E. E. Bullington, L. B. Rodgers, I. Vosburg,	
" " " " wax thread sewing		C. F. Nichols, and C. M. Dunlop, fanning mill	5182
" " " " mechanism	5246	Neal, William F., horse hay rake	5274
Cornell, Augustus, quilting frame	5275	Nichols, Colin F., E. R. Myer, C. M. Manville, J. W. John-	
Courteille, Herenstein, blasting powder	5218	son, S. W. Alvord, E. E. Bullington, L. B. Rodgers,	
Cunningham, Albert, saw mill dog	5181	I. Vosburg, and C. M. Dunlop, fanning mill	5182
De Wae, Laurens E., forming seams of boots and shoes	5220	Nickerson, John, milk and meat safe shelf	5222
Dili, Lorenzo, ear coupling	5250	Parmlie, Wolcott J., art of producing wrought metal car-	
Downton, Robert L., and J. A. Miller, middlings purifier	5221	riage axle boxes	5196
" " " " manufacture of mid-		Peck, Duane, and S. L. Porter, railway rail support	5256
" " " " dlings flour	5225	Porter, Samuel L., and D. Peck, " " " "	5258
Dunlop, Charles M., E. E. Bullington, J. W. Johnson, C.		Rawson, David W., clothes washer	5193
M. Manville, S. W. Alvord, L. B. Rodgers, E. R.		Reed, Joseph W., lubricator	5213
Myer, I. Vosburg, and C. F. Nichols, fanning mill	5182	" " " " William H., gas carburetter	5231
Durand, Michel, fire escape	5202	" " " " air blower for carburetters	5243
Edgar, James, coal shovel	5159	Regan, John, framings and moulds to make wells, cement	
Eberts, Herman F., wheel fenders for vehicles	5200	pipes, drains, &c.	5176
Erdmansk, Ferdinand, razor	5210	Rice, John, rolling hoisting apparatus for saw mills	5175
Ewart, William D., drive chain	5163	Richardson, Isaac C., steam heating apparatus	5171
Fewerty, William R., file and tool handle	5180	Ripley, Charles J., tug-phi for vehicle shafts	5188
Fisher, Calvin L., side springs, vehicles	5272	Robbins, Robert D., mowing and reaping machine	5251
Fitch, Edson, and L. H. Hamilton, paper match box		Rodgers, Lyman B., C. F. Nichols, E. R. Myer, C. R.	
machine	5267	Manville, J. W. Johnson, S. W. Alvord, E. E.	
Galbraith, Robert S., and W. Snow, umbrella and parasol		Bullington, I. Vosburg, and C. M. Dunlop, fanning	
case	5190	mill	5182
Gardner, Francis M., fitting attachment for shovels and		Rogers, John S., extracting gelatine from salted fish skins	5259
forks	5161	Ryckman, Samuel S. (assignee), lamp chimney cleaner	5205
Gitchrist, Robert, extension ladder	5158	Rykert, Alvaro G., carriage painter's jack	5212
Glynn, Lawrence, pipe wrench	5161	Schmidt, Edwin, and G. Kallmeyer, sewing machine	5197
Graves, Erasmus G., snow plough	5233	Seaver, Gulman W., and N. D. Martin (assignees), milk	
Gruesey, Daniel, milk cooler	5209	cooler	5206
Guest, John, Jr., churn power	5157	Sells, Hugh, elder mill	5235
Gwathmey, Richard C., machine for holding objects, par-		Shaw, George W., and C. Z. Mattison, spinning machine	5208
ticularly cylindrical ones	5239	Sheldon, James H. (co-inventor and assignee), illumina-	
Hahn, Ignatius, hydraulic crane	5263	ting gas	5154
Hamilton, Lewis H., and E. Fitch, paper match box		Shirreff, John, freezing and refrigerating machines	5258
machine	5267	Simpson, Joseph, and S. R. Smith, manufacture, apparatus	
Hargreaves, Edward E., railway car ventilator	5252	and compound for producing iron, steel, &c.	5218
Harriman, James, tumbling rod and coupling joint cover-		Skidmore, Abel F., hoop machine	5170
ing	5277	Smith, Samuel R., and J. Simpson, manufacture, apparatus	
Harvey, Thomas, and Alexander, dumping waggon	5253	and compounds for producing iron, steel, &c.	5248
Hawkesworth, Daniel, spark arrester	5260	" " " " William, and A. E. Barthel, peat machine	5271
Holland, Charles L., lock nut	5215	Spencer, Charles L., and N. W. Westcott, knitting loom	5245
Holman, Chester C., box	5237	Stebbins, Timothy, hydraulic elevator	5189
Horsey, Edward H., and G. W. Cook, car truck	5203	Steele, David, apparatus for extinguishing fires	5251
Howe, Henry A., harvester	5223	St. John, Roswell H., sewing machine	5216
" " " " Jarvis, and papering machine	5198	Thompson, George H., A. A., and M. O. Mathews, apparatus	
Imboden, John D., car axle lubricator	5199	to prevent horses from jumping	5155
Johnson, John W., C. M. Manville, S. W. Alvord, E. E.		" " " " Gregory, S., threshing machines	5221
Bullington, L. B. Rodgers, E. R. Myer, I. Vosburg,		Thurber, George B., oscillating steam engine	5276
C. F. Nichols, and C. M. Dunlop, fanning mill	5182	Thurman, Benjamin W., stump extractor	5238
Jones, George H., turbine water wheel	5212	Vosburg, Isaac, L. B. Rodgers, C. F. Nichols, E. R. Myer,	
Kalbelsch, Franklin H., carrier for acids	5185	C. M. Manville, J. W. Johnson, S. W. Alvord, E. E.	
Kallmeyer, Gustav, and E. Schmidt, sewing machine	5197	Bullington, and C. M. Dunlop, fanning mill	5182
Kane, Thomas, coal ash sifter	5265	Walling, George, machine for producing a current of cold	
Kelth, William, and H. J. Yeargin, land roller and harrow		air round mill stones	5156
combined	5192	Wandly, Henry, machine for making stove pipe gones	5173
Kelly, George, feather renovating machine	5181	Watkins, Albert H., vapour burner	5207
Killey, Joseph H., and W. Muirhead, steam boiler	5242	Webster, Stephen, oil tank	5195
Lamite, William and James, fanning mill	5204	Westcott, Nathaniel W., and C. L. Spencer, knitting	
Long, Charles B., leather crimping machine	5162	loom	5245
McLean, John, street pavement	5194	White, Eli B., barrel, or circular box	5172
Macdonald, Helen M., skirt protector	5229	" " " " Hiram W., guitar head	5165
Mackinnon, John A., windmill tree	5179	" " " " chin rest for violins	5167
Mambré, Alexandre, fatty matter, sugar and spirits from		Williams, Henry A., machine for rolling crimping tacks,	
cereals, &c.	5168	awls, &c.	5227
Mann, James D., snow plough	5156	" " " " Samuel, and G. S. Bryant, mirling machine	5214
" " " " John W., seed sower	5160	Wolf, Horace S., cleansing gas retorts	5219
Martin, James J., washing machine	5187	Wood, Peter, shaft coupling for cutters	5262
" " " " Norris D., and G. W. Seaver (assignees), milk		Worster, Alexander, locking latch	5273
cooler	5200	Yagin, Nicholas, feeding apparatus of steam boilers	5257
Mathews, Augustus A., and Marcus O., and George H.		Yeargin, Henry J., and W. Kelth, land roller and harrow	
Thompson, apparatus to prevent horses from jump-	5155	combined	5192