ENGINEERING INVENTIONS

A car coupling has been patented by Messrs. Jacob W. Baker and George A. Prescott, of Dover, N. J. Combined with the drawhead and coupling pin is a movable toothed circular stop, adapted to support the pin when raised, and provided with pivots or bearings for operation in relation with the coupling pin and link.

A car coupling has been patented by Mr. George W. Wilson, of Lanesborough, Minn. This invention covers novel features of construction and the combination of parts in a device by which cars may be coupled automatically as they come together, without requiring the train men to stand between the cars, while it is simple and inexpensive.

AGRICULTURAL INVENTIONS.

A check rower for corn planters has been patented by Mr. Alvin Devine, of Rantoul, Ill. This invention provides a planter that is operated from a wire or rope stretched at the side, wherein the wire need not be detached at the ends when the planter is reversed, while the operating mechanism is strong and simple and not liable to lose motion by slight wear.

A harrow has been patented by Mr. Elihu P. Stone, of Lincoln, Kansas. It has a transverse shaft with crank arms at its ends mounted on the harrow frame, with means for turning the shaft to raise or lower the harrow frame, with various other novel details and combinations of parts, whereby the teeth of the harrow may be raised out of the ground and cleaned.

A cultivator has been patented by Mr. Wilbur F. Hubbell, of Wauseon, Ohio. It has a tubular plow beam, preferably formed of iron pipe, with a socket forged on its forward end and connected with an upwardly bent arm, making a beam and standard which will support a number of plows, and which may be readily adjusted to place the plows at different distances from each other.

.... MISCELLANEOUS INVENTIONS.

A hoisting machine has been patented by Mr. Patrick Connolly, of Scranton, Pa. The inven-tion covers a machine of novel construction intended principally for use in mines for putting roof timbers and props or struts in place.

A bill or paper file has been patented by Mr. Frank B. Gilbert, of Jefferson, Texas. The invention consists in a file having a recess or slot formed near its piercing end and a tongue pivoted therein, to prevent the bills or papers on the file from working off.

A spokeshave has been patented by Mr. James H. Polhemus, of Brooklyn, N. Y., This invention covers a novel construction and combination of parts in a spokeshave designed to be capable of use as readily in curves of small radius as upon a flat surface, or in apertures large enough to admit the tool.

A wagon jack has been patented by Mr. Nathan L. Hakes, of Grafton, N. Y. The invention covers novel features of construction and combination of parts, whereby there is no tendency to swing the load lifted by the jack, strain on the jack and vehicle being thereby reduced to a minimum, while but little power is required to work the jack.

A windmill has been patented by Mr. Martin V. Harper, of North Yakima, Washington Ter. It has a pivoted vane, presenting more or less surface to the wind, so that when the latter changes to a storm it assists in changing the face of the wind wheel from the direction of the storm, with other novel features, intended to make a simple, durable, and efficient windmill.

A spring bed bottom has been patented by Messrs. Frank W. Smith and George D. Livingston, of Dodge Center, Minn. A cover is stretched over the springs and folded at its corners, hooks held in the corners of the frame being passed through the folded corners of the cover, whereby the latter is drawn taut and held from displacement, while it can be readily applied and easily detached.

A hame tug buckle has been patented by Mr. Charles Rozell, of Great Bend, Kansas. It is cast in one piece and in box form, with a central passage for the trace and two side passages for the back pad biilet, to the lower end of which the belly band of the harness may be buckled, thus effecting a saving in stock and in the labor of attaching a separate billet to the side buckle.

A machine for jointing and shaping shingles has been patented by Mr. Alfred T. Stimson, of Eureka, Cal. It is designed to take the shingles as they leave the shingle saw, bunch them radially in the The SUPPLEMENT contains lengthy articles emoracing machine, ornament the ends of the shingles according the whole range of engineering, mechanics, and physical to a pattern to be detachably clamped or bolted to an arm of the machine, and simultaneously joint their upper longitudinal edge. A fastener for the meeting rails of sushes has been patented by Mr. John F. Pool, of Mount Carmel, Ill. The fastener consists of a catch mounted within a case, the catch being supported by a pivot pin which carries a forwardly extending spring resting in an aperture formed in the catch, whereby the sash may be held in closed position or may be held partially open. A repeating watch has been patented by Ami F. Pfister, of Locle, Switzerland. The inven-tion consists principally in a device for obstructing the hammers for a constant interval between the strokes of the hour and the quarter, the quarter and the minute, etc., and in novel means for disengaging the winding mechanism when the repeater is to be used, the arrangement of the gongs and the striking mechanism under the dial, with various novel details and combinations of parts, the repeating mechanism not encroaching up on the movement.

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6.

FRESH AIR.

We do not condemn the theory or the practice of re sorting to fresh air mountain retreats, quiet country homes, seaside rambles and bathing, or the various min eral springs as restoratives to failing health. No doubt are many who have been greatly relieved by all these favorite resorts, and some very justly claim they have been cured. But the number is legion that find no comfort, no relief to their weakness, their aches, their pains, in such grasping at straws in their struggle to save themselves. The following letters illustrate this point, and show the wisdom of the one most interested in the case.

A patient in Grand Junction, Tenn., on April 20, 1886 wrote the following.

"My family doctor said I ought and must go to Hot Springs and stay three months. My good brother came down from Middle Tennessee to see me, and he also tried to persuade me to go and spend three months at the springs. I declined to do so on the ground that I knew more about Hot Springs than either of them. I has sim ply told them that I intended to stay at home and has Compound Oxygen, and be where I could get fresh air. I believe three months at the springs, taking that contaminated air in all the time, would kill me. 1 have been there once, and it was a fruitless trip, aye worse. On theotherhand. I have as much confidence in Compound Oxygen as I would have in giving beef and bread to a starving man. The Compound Oxygen that I used over a year ago did me much good. I wanted to be moving to some other country all the time, and could not control myself about eating, and many other things. I find much relief in these respects after using the Compound Oxygen.'

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W. W. Crooker. 367,855 Boot or shoe soles, machine for beating out, J. Pray. 367,927 Boot or shoe supper, mechanism for cleaning, L B. & F. B. Newhall. 368,105 Bottle stopper, M. O. Rhefuss. 368,105 Bottle stopper, M. O. Rhefuss. 368,105 Box Sae Miter boz. Pill boz. Box, A. S. Nichols. 367,885 Box fastening, card board, S. Geiger. 367,970 Box strap, J. K. Chase. 367,572 Bracket. See Dental engine bracket. Brake. See Car brake. 367,572 Broom corn, machine for cutting, G. E. Burk- holder. 367,357 Brush handle attachment, G. J. Cline. 368,070 Buckle, hame tug, C. Rozell. 368,101 Buckle, suspender, D. L. Smith. 368,103 Burglar atarm, S. T. Lamb. 368,103 Burglar atarm, S. T. Lamb. 368,103 Burglar atarm, S. T. Lamb 368,104 Butter, purifying and preserving, G. W. Towar, Jr. 367,940 Button attaching machine, W. O. Crain. 368,134 Buttonholes, making, J. D. Wentworth. 368,365 Button or stud, T. I. Smith. 367,400 Button setting machine, L. C. Emerson. 368,144 Buttoner, clove or shoe, J. B. Smith. 367,790 Button string machine, J. B. Smith. 367,794 Car brake, A. Argo. 367,947 Car brake, C. E. Garey. 367,947 Car torake, C. E. Garey. 367,947 Car torake, C. E. Garey. 367,947 Car torake, C. E. Garey. 367,947 Car coupling, N. Edwards. 367,947 Car coupling, N. Edwards. 367,948 Car coupling, N. Kelwards. 367,949 Car coupling, N. Kelwards. 367,947 Car, sleeping, J. W. Wilson. 367,947 Car, sleeping, J. W. Wilson. 367,947 Car, sleeping, J. W. Post. 368,145 Cartory Carrier and spark arrester, box, H. C. Lynch (r). 368,145 Cartory Carrier and spark arrester, box, H. C. Lynch (r). 368,145 Cartory carrier and spark arrester, box, H. C. Lynch (r). 368,145 Cartory carrier and spark arrester, box, H. C. Lynch (r). 368,145 Carboy carrier and spark arrester, box, H. C. Lynch (r). 562 Cotton chopper. 367,947		88,0:30
Pray. 367,927 Boot or shoe strap, J. L. Rousmaniere. 368,550 Boot or shoe uppers, mechanism for cleaning, L. B. & F. B. Newhall. Boxt Estopper, M. O. Rhefuss. 368,113 Box. See Miter box. Pill box. 367,857 Box fastening, card board, S. Geiger 367,877 Box strap, J. K. Chase. 367,879 Box tard, D. K. Chase. 367,857 Bracket. See Dental engine bracket. Brake. Brake. Lowey. 367,457 Broom corn, machine for cutting, G. E. Burkholder. 368,071 Buckle, suspender, D. L. Smith. 368,071 Buckle, hame tug, C. Rozell 368,070 Buckle, H. Payne. 363,085 Burner. See Gas burner. Lamp burner. Hydrocarbon burner. Jr. S66,300 Button attaching machine, V. O. Crain 368,134 Button or stud, T. I. Smith. 367,960 Button setting machine, L. C. Emerson 368,136 Button setting machine, L. C. Emerson 368,136 Car brake, A. Agoo. 367,377 Button stating securing. W. E. Bennett. 367,407 Button or stud, T. I. Smith. 367,408	W. W. Crooker	87,895
Boot or shoe strap, J. J. Rousmaniere		87 1197
B, & F. B. Newhall 368,105 Bottle stopper, M. O. Rhefuss. 368,113 Box, See Miter box. Pill box. 367,815 Box, A. S. Nichols. 367,815 Box fastening, card board, S. Geiger. 367,875 Box strap, J. K. Chase 367,875 Bracket. See Dentale enzine bracket. Brake. Brake. See Dentale enzine bracket. Brake. Brake. See Dentale enzine bracket. 367,465 Broom corn, machine for cutting, G. E. Burk-holder. 368,070 Buckle, hame tug, C. Rozell. 368,070 Buckle, hame tug, C. Rozell. 368,070 Buckle, hame tug, C. Rozell. 368,070 Burg and bushing, O. Elsenhuth. 368,135 Burglar atarm, S. T. Lamb. 368,070 Bustle, H. P. Olmstead. 368,106 Bustle, H. P. Apne. 368,035 Button attaching machine, W. O. Crain. 368,135 Button or stud, T. I. Smith. 368,135 Button or stud, T. I. Smith. 368,136 Button setting machine, L. C. Emerson. 368,136 Button setting machine, L. C. Emerson. 368,136 Can pake, A. Argo. 367,391 Ca		
Bottle stopper, M. O. Rhefuss. 368,113 Box, See Miter box. Pill boz. 367,856 Box fastening, card board, S. Geiger. 367,875 Box fastening, card board, S. Geiger. 367,875 Box strap, J. K. Chase. 367,875 Box strap, J. K. Chase. 367,875 Bracket. See Dental enzine bracket. Bracket. See Dental enzine bracket. Brake, H. Dewey. 367,455 Brush handle attachment, G. J. Cline. 368,070 Buckle, suspender, D. L. Smith. 368,022 Bung and bushing, O. Eisenhuth. 368,022 Burg and bushing, O. Eisenhuth. 368,026 Burstle, H. P. Olmstead. 368,106 Bustle, H. Payne. 368,000 Butter, purifying and preserving, G. W. Towar, Jr. Jr. Jr. 367,860 Button setting machine, L. C. Emerson. 368,143 Buttons to materials, securing, W. E. Bennett. 367,463 Button setting machine, J. D. Wentworth. 367,460 Button setting machine, L. C. Emerson. 367,463 Button setting machine, L. C. Emerson. 367,463 Button setting machine, J. J. Smith. 367,460 Button set		NO 10E
Box, A.S. Nichols		
Box board caps, device for cutting, J. Weber	Box. See Miter box. Pill box.	
Box fastening, card board, S. Geiger. \$37,570 Box strap, J. K. Chase. \$37,892 Bracket. See Dental engine bracket. Brake. Brake. See Car brake. Brake. Brake. H. Dewey. \$37,455 Broom corn, machine for cutting, G. E. Burk-holder. \$38,071 Buckle, hame tug, C. Rozell. \$38,071 Buckle, hame tug, C. Rozell. \$38,072 Bung and bushing, O. Eisenhuth. \$38,095 Burrer. See Gas burner. Lamp burner. Bustle, H. P. Olmstead. \$32,095 Buste, H. P. Olmstead. \$351,065 Button attaching machine, W. O. Crain. \$357,860 Button attaching machine, W. O. Crain. \$357,860 Button setting machine, L. C. Emerson. \$361,145 Button setting machine, L. C. Emerson. \$361,365 Button setting machine, J. D. Wentworth. \$367,465 Button setting machine, J. P. S. Bennett. \$367,467 Cam bachine, tin, Hazen & Merrill. \$367,467 Car brake, A. Argo. \$37,403 Car brake, A. Macomb. \$367,467 Car brake, A. Legenhardt. \$367,467 Car oupling, Baker & Prescott. \$367,467 </td <td>Box, A. S. Michols</td> <td>67,875</td>	Box, A. S. Michols	67,875
Bracket. See Dentsl engine bracket. Brake. J. Dewey. 367,165 Broom corn, machine for cutting, G. E. Burkholder. 367,357 Brush handle attachment, G. J. Cline 368,070 Buckle, hame tug, C. Rozell. 368,070 Buckle, hame tug, C. Bischuth. 368,022 Bung and bushing, O. Eisenhuth. 368,035 Burner. See Gas burner. Lamp burner. Hydrocarbo burner. Bustle, H. P. Olmstead. 368,036 Butter, purifying and preserving, G. W. Towar, Jr. Jr. 368,035 Button attaching machine, W. O. Crain. 368,036 Button or stud, T. I. Smith. 368,036 Button setting machine, L. C. Emerson. 368,134 Cam pake, N. Jensen. 367,460 Cat pake, C. E. Garey. 367,050 Cat brake, A. Argo. 367,940 Car coupling, N. Bawards. 367,798 Car coupling, N. Edwards. 367,798 Car coupling, N. Macomb. 367,941 Car coupling, C. H. Knowiton	Box fastening, card board, S. Geiger	57,970
Brake, H. Dewey. 367, 65 Broom corn, machine for cutting, G. E. Burk- holder. 367, 57 Brush handle attachment, G. J. Cline 368,070 Buckle, hame tug, C. Rozell. 368,070 Buckle, suspender, D. L. Smith. 368,022 Bung and bushing, O. Eisenhuth. 368,022 Burner. See Gas burner. Lamp burner. Hydro- carbon burner. 368,000 Butte, H. P. Olmstead. 363,000 Butter, purifying and preserving, G. W. Towar, Jr. 367,940 Button attaching machine, W. O. Crain. 368,138 Button attaching machine, U. C. Emerson. 368,141 Button setting machine, L. C. Emerson. 368,142 Button esting machine, L. C. Emerson. 368,136 Cam p kit, N. Jensen. 367,840 Car brake, A. Argo 367,940 Car brake, A. Fgo 367,947 Car brake, A. Argo 367,947 Car brake, C. E. Garey. 367,947 Car coupling, N. Edwards. 367,947 Car coupling, N. Edwards. 367,949 Car coupling, G. W. Wilson 367,949 Car coupling, G. W. Wilson 367,941 Car coupling, G. W. Wilson 367,941 <td></td> <td>67,892</td>		67,892
Broom corn, machine for cutting, G. E. Burk- holder		
holder		814:00
Buckle, hame tug, C. Rozell. 305;011 Buckle, suspender, D. L. Smith. 368,022 Bung and bushing, O. Eisenhuth. 368,025 Burner. See Gas burner. Lamp burner. Hydro- carbon burner. 368,005 Bustle, H. P. Olmstead. 368,006 Bustle, H. P. Olmstead. 368,006 Butter, purifying and preserving, G. W. Towar, Jr. 367,940 Button attaching machine, W. O. Crain. 368,035 Button or stud, T. I. Smith. 967,960 Button setting machine, L. C. Emerson. 368,122 Button setting machine, L. C. Emerson. 368,124 Button setting machine, L. C. Emerson. 368,124 Button er, flore or shoe, J. B. Smith. 367,360 Button et al, N. Jensen 367,417 Can machine, tin, Hazen & Merrill. 367,375 Car brake, A. Argo 367,949 Car coupling, Baker & Prescott. 367,949 Car coupling, C. W. Wison 367,494 Car coupling, G. W. Wilson 367,493 Car coupling, G. W. Wilson 367,494 Car coupling, G. W. Wilson 367,494 Car coupling, G. W. Wilson 367,495 Car coupling, G. W. Wilson		67,957
Buckle, suspender, D. L. Smith. 368,022 Bung and bushing, O. Eisenhuth. 368,035 Burglar aizrm, S. T. Lamb. 368,035 Burner. See Gas burner. Lamp burner. Hydro- carbon burner. 368,000 Butter, Payne. 368,000 Butter, purifying and preserving, G. W. Towar, Jr	Brush handle attachment, G. J. Cline	68,070 68,011
Burglar atarm, S. T. Lamb. 368,036 Burner. See Gas burner. Lamp burner. Hydro- carbon burner. 368,106 Bustle, H. P. Olmstead. 368,106 Bustle, H. Payne. 368,000 Butter, purifying and preserving, G. W. Towar, Jr. 367,940 Button attaching machine, W. O. Crain. 368,035 Button or stud, T. I. Smith. 367,960 Button setting machine, L. C. Emerson. 368,112 Button setting machine, L. C. Emerson. 368,124 Button er, clove or shoe, J. B. Smith. 367,760 Button er, f. E. Degenhardt. 368,135 Cam pkit, N. Jensen. 367,761 Car brake, A. Argo. 367,791 Car coupling, Baker & Prescott. 367,793 Car coupling, C. W. Knowiton. 368,155 Car coupling, G. W. Wilson 367,943 Car coupling, G. W. Wilson 367,943 Car coupling, G. W. Wilson 368,155 Car, dumpner, G. F. Mitman. 368,034 Car, dumpner, G. F. Whitman. 368,035 Car, allaxy passenger, L. C. Hyde. 367,943 Car coupling, G. W. Wost. 368,040 Car or fastener and spark arrester, box, H. C. Lync	Buckle, suspender, D. L. Smith	88,022
Burner. See Gas burner. Lamp burner. Hydro- carbon burner. 363,106 Bustle, H. P. Olmstead. 363,000 Butter, purifying and preserving, G. W. Towar, Jr. 367,940 Button attaching machine, W. O. Crain. 368,134 Button attaching machine, W. O. Crain. 368,135 Button attaching machine, L. C. Emerson. 368,141 Buttons esting machine, L. C. Emerson. 368,141 Buttoner, glove or shoe, J. B. Smith 368,7640 Cable hanger, F. E. Degenhardt. 368,135 Car brake, A. Argo 367,741 Car brake, C. E. Garey. 367,940 Car coupling, N. Edwards. 367,793 Car coupling, N. Edwards. 367,794 Car coupling, C. H. Knowiton. 368,155 Car coupling, C. H. Knowiton. 367,794 Car coupling, G. F. Whitman. 367,944 Car door fastener and spark arrester, box, H. C. 10,855 Car, railway passenger, L. C. Hyde. 367,940 Car ventilator, railway, F. Hanson. 368,153 Carsing attachment for freight, J. Jordan. 368,155 Carrier. Cash carrier. 367,940 Carting machine, S. D. Keene. 367,941 <td< td=""><td></td><td></td></td<>		
Bustle, H. P. Olmstead. 368,106 Bustle, H. Payne. 368,000 Butter, purifying and preserving, G. W. Towar, Jr. Jr. 367,940 Button attaching machine, W. O. Crain. 368,055 Button loes, making, J. D. Wentworth. 369,635 Button or stud, T. I. Smith. 367,960 Button setting machine, L. C. Emerson. 368,114 Buttons to materials, securing, W. E. Bennett. 368,124 Buttoner, clove or shoe, J. B. Smith. 367,760 Cam pkit, N. Jensen. 967,657 Car brake, A. Argo. 967,747 Car brake, A. Argo. 967,747 Car coupling, Baker & Prescott. 367,948 Car coupling, C. W. Knowiton. 368,155 Car coupling, G. W. Wilson 367,948 Car dor fastener and spark arrester, box, H. C. Lynch (r) Lynch (r) 10,855 Car, dumpnug, G. F. Whitman. 368,043 Car, sleeping, J. W. Post. 368,043 Car ventilator, railway, F. Hanson. 368,043 Car ventilator, railway, F. Hanson. 367,349 Carding machine, S. D. Keene. 367,358 Carding machine, S	Burner. See Gas burner. Lamp burner. Hydro-	
Bustle, H. Payne. 365,000 Butter, purifying and preserving, G. W. Towar, 37,940 Jr	carbon burner. Bustle, H. P. Olmstead	88.106
Button attaching machine, W. O. Crain	Bustle H. Payne 3	100 28
Button attaching machine, W. O. Crain	Butter, purifying and preserving, G. W. Towar, Jr	87.940
Button or stud, T. I. Smith	Button attaching machine, W. O. Crain	
Button setting machine, L. C. Emerson. 308,114 Buttons to materials, securing, W. E. Bennett. 306,124 Buttoner, glove or shoe, J. B. Smith. 328,024 Cable hanger, F. E. Degenhardt. 368,136 Cam p kit, N. Jensen. 967,612 Can machine, tin, Hazen & Merrill. 367,956 Car brake, A. Argo. 367,957 Car brake, C. E. Garey. 367,957 Car coupling, Baker & Prescott. 367,947 Car coupling, N. Edwards. 367,798 Car coupling, N. Edwards. 367,794 Car coupling, G. W. Wilson. 367,819 Car coupling, G. W. Wilson. 367,819 Car door fastener and spark arrester, box, H. C. Lynch (r) Lynch (r) 10,855 Car, dumping, G. F. Whitman. 368,030 Car, sealing attachment for freight, J. Jordan. 368,148 Carseriet and stand, L. Hillebrand. 367,396 Carting machine, S. D. Keene. 367,356 Carding machine, J. M. Waggoner. 368,148 Carse, sealing attachment for freight, J. Jordan. 368,155 Cartording machine, S. D. Keene. 367,356 Carding machine, S. D. Keene.		66,134
Buttoner, clove or shoe, J. B. Smith		68,134 58,035
Cable hanger, F. E. Degenhardt. 368,136 Cam p kit, N. Jensen. 967,612 Can machine, tin, Hazen & Merrill. 367,763 Car brake, A. Argo. 367,975 Car brake, C. E. Garey. 367,976 Car coupling, Baker & Prescott. 367,995 Car coupling, N. Edwards. 367,995 Car coupling, N. Edwards. 367,996 Car coupling, N. Edwards. 367,998 Car coupling, C. H. Knowiton. 368,155 Car coupling, G. W. Wilson. 367,998 Car door fastener and spark arrester, box, H. C. Lynch (r) Lynch (r) 10,855 Car, qumping, G. F. Whitman. 368,030 Car, seleping, J. W. Post. 368,030 Car ventilation, J. M. Waggoner. 368,030 Car ventilator, railway, F. Hanson. 368,148 Caraing machine, S. D. Keene. 367,390 Carting machine, S. D. Keene. 367,393 Carding machine, S. D. Keene. 367,393 Carding machine, S. D. Keene. 367,394 Carding machine, S. D. Keene. 367,395 Cartier. Cash carrier. 368,163 Carding machine, S. D. Keene.	Button setting machine, L. C. Emerson 3	65,134 59,035 57,860 68,141
Can machine, tin, Hazen & Merrill. 367,573 Car brake, A. Argo. 367,947 Car brake, C. E. Garey. 367,905 Car coupling, N. Baker & Prescott. 367,798 Car coupling, N. Edwards. 367,798 Car coupling, W. A. Macomb. 367,819 Car coupling, G. H. Knowlton. 367,819 Car door fastener and spark arrester, box, H. C. 10,855 Car, dumping, G. F. Whitman. 367,811 Car, seleping, J. W. Post. 367,810 Car ventilation, J. M. Waggoner. 368,105 Car ventilator, railway, F. Hanson. 363,388 Carburetor for air or gas, C. B. Dudley. 367,830 Carting machine, S. D. Keene. 367,335 Carrier. Cash carrier. 367,434 Carding machine, S. D. Keene. 367,335 Carrier. Cash carrier. 367,434 Carding machine, A. F. Schmid. 367,535 Carrier. Cash carrier. 367,335 Carrier. Cash carrier. 368,102 Cash and package carrier, Boste	Button setting machine, L. C. Emerson 38 Buttons to materials, securing, W. E. Bennett 3	68,134 59,065 57,860 68,141 69,124
Car brake, A. Argo. \$67,947 Car brake, C. E. Garey. \$67,905 Car brake, autematic, J. Y. Davis. \$67,791 Car coupling, Baker & Prescott. \$67,948 Car coupling, N. Edwards. \$67,791 Car coupling, N. Edwards. \$67,791 Car coupling, N. K. Knowlton. \$68,155 Car coupling, C. W. Wilson. \$67,819 Car door fastener and spark arrester, box, H. C. Lynch (r) Lynch (r) \$68,055 Car, dumping, G. F. Whitman. \$68,050 Car, quing passenger, L. C. Hyde. \$67,811 Car ventilation, J. M. Waggoner. \$68,030 Car ventilator, railway, F. Hanson. \$88,148 Carboy carrier and stand, L. Hillebrand. \$67,390 Carding machine, S. D. Keene. \$67,315 Carding machine, S. D. Keene. \$67,335 Carrier. See Carboy carier. Cash and package carrier. \$67,350 Cartier, See Carboy cariier. Cash and package carrier. \$67,356 Cash and package carrier, Bostedo & Thomas. \$67,356 Cash and package carrier, Bostedo & Thomas. \$67,561 Cash and package carrier, H. M. Weaver. \$67,561 Cash and	Button setting machine, L. C. Emerson	65,134 58,035 57,860 58,141 59,124 58,024 58,136
Car brake, autematic, J. Y. Davis. 367,791 Car coupling, N. Bawards. 367,798 Car coupling, N. Kawards. 367,798 Car coupling, N. Kawards. 367,798 Car coupling, N. Kawards. 367,798 Car coupling, N. A. Macomb. 367,819 Car coupling, G. H. Knowlton. 367,819 Car coupling, G. W. Wilson. 367,819 Car door fastener and spark arrester, box, H. C. 10,855 Car, dumping, G. F. Whitman. 367,811 Car, railway passenger, L. C. Hyde. 367,811 Car ventilation, J. M. Waggoner. 366,050 Car ventilator, railway, F. Hanson. 367,840 Carboy carrier and stand, L. Hillebrand. 367,360 Carboy carrier and stand, L. Hillebrand. 367,360 Carboy carrier and stand, L. Hillebrand. 367,360 Carding machine, S. D. Keene. 367,305 Carting machine, S. D. Keene. 367,305 Carrier. Cash carrier. 367,305 Carrier. Cash carrier. 367,305 Carting machine, A. F. Schmid. 367,531 Carter and package carrier, Bostedo & Thomas. 367,354 Cash and package carrier. 368,100	Button setting machine, L. C. Emerson	65,134 58,055 57,860 58,141 59,124 58,136 58,136 57,812
Car coupling, Baker & Prescott	Button setting machine, L. C. Emerson	65,134 59,035 57,860 58,141 59,124 59,124 58,136 57,812 57,818 57,978 67,947
Car coupling, C. H. Knowlton 368,156 Car coupling, W. A. Macomb 367,819 Car coupling, G. W. Wilson 367,844 Car door fastener and spark arrester, box, H. C. 10,855 Car, dumping, G. F. Whitman 367,811 Car, railway passenger, L. C. Hyde 367,811 Car, stener and spark arrester, box, H. C. 10,855 Car, dumping, G. F. Whitman 367,811 Car, railway passenger, L. C. Hyde 367,811 Car, seleping, J. U. Dwight 367,811 Car ventilation, J. M. Waggoner 368,050 Car ventilator, railway, F. Hanson 367,380 Carboy carrier and stand, I. Hillebrand 367,380 Carboy carrier and stand, I. Hillebrand 367,380 Carding machine, S. D. Keene 367,335 Carding machine, S. D. Keene 367,335 Carting machine, A. F. Schmid 367,533 Carrier. See Carboy carier. Cash and package 367,353 Carrier. Cash carrier. 368,102 Cash and package carrier, Bostedo & Thomas 367,351 Cash and package carrier, Bostedo & Thomas 367,351 Cash and package carrier, Bostedo & Thomas 368,102 Ca	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett 3 Buttoner, glove or shoe, J. B. Smith	85,134 58,055 57,860 58,141 59,124 58,136 57,812 57,978 67,947 57,905
Car coupling, W. A. Macomb	Button setting machine, L. C. Emerson	65,134 58,055 57,860 58,141 59,124 58,136 57,812 57,812 57,978 67,947 57,805 57,791 57,948
Car coupling, G. W. Wilson	Button setting machine, L. C. Emerson	65,134 58,055 57,860 58,141 59,124 58,136 57,812 57,917 57,947 57,948 57,948 57,948 57,948 57,948
Lynch (r) 10,855 Car, dumping, G. F. Whitman. 568,035 Car, railway passenger, L. C. Hyde. 567,811 Car replacer, J. L. Dwight. 367,947 Car, sleeping, J. W. Post. 588,005 Car ventilation, J. M. Waggoner. 368,010 Car ventilator, railway, F. Hanson. 368,148 Carson entilation, J. M. Waggoner. 368,148 Carson entilator, railway, F. Hanson. 368,148 Carson entilator, railway, S. D. Keene. 367,390 Cartong machine, S. D. Keene. 367,491 Carding machine, A. F. Schmid. 367,553 Carting, S. U. Kavene. 367,354 Carter. See Carboy carrier. 367,354 Case. See Filing case. 367,854 Case. See Filing case. 367,551 Carter, d. J. H. Shufeit 367,551 368,029 Cash and package carrier, Bostedo & Thomas. 367,564 Cash carrier, H. T	Button setting machine, L. C. Emerson	85,134 58,055 57,860 68,141 69,124 58,136 57,812 67,812 67,947 57,905 57,791 57,948 67,798 68,155 57,798
Car, dumping, G. F. Whitman	Button setting machine, L. C. Emerson	85,134 58,055 57,860 68,141 69,124 58,136 57,812 67,812 67,947 57,905 57,791 57,948 67,798 68,155 57,798
Car replacer, J. L. Dwight. 367,977 Car, sleeping, J. W. Post. 368,005 Car ventilation, J. M. Waggoner. 368,005 Car ventilation, J. M. Waggoner. 368,005 Car ventilator, railway, F. Hanson. 368,152 Carboy carrier and stand, L. Hillebrand. 367,990 Carboy carrier and stand, L. Hillebrand. 367,990 Carding machine, S. D. Keene. 367,137 Carding machine, A. F. Schmid. 367,553 Carrier. See Carboy carier. Cash and package 367,890 cartier. Cash carrier. 367,893 Carsting machine, S. D. Keene. 367,893 Carrier. Cash carrier. 367,854 Cash and package carrier, Bostedo & Thomas. 367,854 Cash and package carrier, Bostedo & Thomas. 368,102 Caster, furniture, O. Pederson 368,101 Casting brass, mould for, W. Adams. 367,774 Chain and pen and pencil holder, coombination 367,814 Check hook, J. B. Higgins. 367,810 Chopper. See Cotton chopper. 367,797 Citagar bunching machine, E. A. Kitzmiller. 367,794	Button setting machine, L. C. Emerson	85,134 89,035 87,960 88,141 69,124 88,136 67,812 87,978 67,947 67,948 67,798 68,155 67,798 68,155 10,855
Car, sleeping, J. W. Post \$68,005 Car ventilation, J. M. Waggoner. \$68,005 Car ventilation, J. M. Waggoner. \$68,005 Car ventilator, railway, F. Hanson. \$88,118 Cars, sealing attachment for freight, J. Jordan \$68,005 Carboy carrier and stand, L. Hillebrand. \$67,805 Carding machine, S. D. Keene. \$67,814 Carding machine, A. F. Schmid. \$67,553 Carriage, child's, J. W. Savene. \$67,835 Carrier. See Carboy carrier. Cash and package carrier. \$67,854 Cast, road, J. H. Shufeit. \$67,854 Cash and package carrier, Bostedo & Thomas. \$67,854 Caste carrier, H. Thomas. \$68,026 Caster, furniture, O. Pederson \$68,026 Casting brass, mould for, W. Adams. \$67,774 Chain and pen and pencil holder, coombination \$67,864 Check hook, J. B. Hilggins. \$67,864 Check hook, J. B. Hilggins. \$67,787 Ciagar bunching machine, E. A. Kitzmiller	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Can machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, C. H. Knowlton. 3 Car door fastener and spark arrester, box, H. C. Lynch (r) Lynch (r) 3 Car, Cardon fastener and spark arrester, box, H. C. Lynch (r)	68,134 59,055 57,660 58,141 69,124 58,136 57,812 57,812 57,815 57,905 57,905 57,905 57,905 57,905 57,917 57,905 57,918 57,918 57,919 57,918 57,919 57,918 57,919 57,918 57,919 57,919 57,919 57,919 57,919 57,919 57,918 58,058 58,058 58,058 58,058 58,058 57,918
Car ventilator, railway, F. Hanson	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car oraphing, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, O. H. Knowlton. 3 Car door fastener and spark arrester, box, H. C. 1 Car, alumping, G. W. Wilson. 3 Car, caupling, G. F. Whitman. 3 Car, railway passenger, L. C. Hyde. 3 Car career, L. D. With 3	68,134 59,055 57,860 68,141 68,142 68,142 68,136 67,947 67,947 67,948 67,948 67,798 67,798 67,798 67,798 67,798 67,794 10,855 67,819 67,944
Carboy carrier and stand, L. Hillebrand	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car oupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, O. H. Knowlton. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, box, H. C. 1 Car, railway passenger, L. C. Hyde. 3 Car, replacer, J. I. Dwight. 3 Car replacer, J. I. We Post. 3	85,134 89,035 87,960 85,141 88,141 88,142 88,142 88,142 88,142 87,978 87,978 87,978 87,979 87,979 88,155 87,791 10,855 88,038 87,811 67,944 10,855 88,038 87,811 67,944 10,855 88,038 86,151 10,855 10,855 10,855 10,945 10,855 10,945 10,855 10,945 10,855 10,945
Carburetor for air or gas, C. B. Dudley	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Can machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, C. H. Knowiton. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, bor, H. C. 1 Lar, railway passenger, L. C. Hyde. 3 Car, sleeping, J. W. Post. 3 Car ventilator, J. M. Waggoner. 3 Car ventilator, J. M. Waggoner. 3	28,134 28,056 27,860 28,141 20,224 28,136 28,136 47,812 28,136 47,812 47,791 47,791 47,791 47,791 47,792 48,155 48,058 47,511 47,812 47,819
Carding machine, S. D. Keene	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car oraphing, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, O. H. Knowlton. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, box, H. C. 1 Car, railway passenger, L. C. Hyde. 3 Car ventilator, J. J. We yest. 3 Car ventilator, J. W. Post. 3 Car ventilator, railway, F. Hanson. 3 <tr< td=""><td>28,134 28,035 27,860 28,141 28,124 28,136 27,812 27,791 27,914</td></tr<>	28,134 28,035 27,860 28,141 28,124 28,136 27,812 27,791 27,914
Carriage, child's, J. W. Savene	Button setting machine, L. C. Emerson	26(134 26(354 27,860 26(141 26(124) 26(141)
Carrier. See Carboy carrier. Cash and package carrier. Cash carrier. Cart, road, J. H. Shufeit	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car brake, autematic, J. Y. Davis. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, N. Edwards. 3 Car coupling, G. H. Knowlton. 3 Car coupling, G. W. Wilson. 3 Car, raluway passenger, L. C. Hyde. 3 Car, raluway passenger, L. C. Hyde. 3 Car ventilator, r. J. D. wight. 3 Car ventilator, J. M. Waggoner. 3 Car ventilator, J. M. Waggoner. 3 Cars, sealing attachment for freight, J. Jordan. 3 Carboy carrier and stand, I. Hillebrand. 3 Carburetor for air or gas, C. B. Dudley. 3 Carboy carrier and stand, S. B. Dudley. 3 Carburetor for air or gas, C. B. Dudley. 3 <td>261,134 28,035 27,860 28,141 261,124 261,136 261,141 261,124 261,136 261,141 261,14</td>	261,134 28,035 27,860 28,141 261,124 261,136 261,141 261,124 261,136 261,141 261,14
Cart, road, J. H. Shufeit	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Can machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, C. H. Knowlton. 3 Car coupling, C. H. Knowlton. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, box, H. C. 1 Lynch (r) 1 3 Car, railway passenger, L. C. Hyde. 3 Car replacer, J. L. Dwight. 3 Car ventilation, J. M. Waggoner. 3 Car ventilator, railway, F. Hanson. 3 Carby carrier and stand, L. Hillebrand. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene. 3	28,134 88,085 87,060 88,141 88,084 88,136 88,024 88,136 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,948 88,055 88,055 88,055 88,152 86,155 1,947 67,951 88,152 86,155 1,947 67,951 80,155 1,955 1
Case. See Filing case. Toilet case. Cash and package carrier, Bostedo & Thomas	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, N. Edwards. 3 Car coupling, G. H. Knowlton. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, box, H. C. 1 Lar door fastener and spark arrester, box, H. C. 1 Car, alumping, G. F. Whitman. 3 Car, railway passenger, L. C. Hyde. 3 Car, sleeping, J. W. Post. 3 Cars, sealing attachment for freight, J. Jordan 3 Carboy carrier and stand, I. Hillebrand. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene. 3 C	28,134 88,085 87,060 88,141 88,084 88,136 88,024 88,136 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,947 67,948 88,055 88,055 88,055 88,152 86,155 1,947 67,951 88,152 86,155 1,947 67,951 80,155 1,955 1
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Cash carrier, H. Thomas. \$68,029 Cask or barrel, I. H. Spelman. \$68,029 Cask or barrel, I. H. Spelman. \$68,029 Caster, furniture, O. Pederson \$68,100 Casting brass, mould for, W. Adams. \$67,774 Chain and pen and pencil holder, coombination \$67,804 Check hook, J. B. Higgins. \$67,804 Choopper. See Cotton chopper. \$67,797 Citagar bunching machine, E. A. Kitzmiller. \$67,916	Button setting machine, L. C. Emerson. 3 Buttons to materials, securing, W. E. Bennett. 3 Buttoner, glove or shoe, J. B. Smith. 3 Cable hanger, F. E. Degenhardt. 3 Cam machine, tin, Hazen & Merrill. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, A. Argo. 3 Car brake, C. E. Garey. 3 Car coupling, Baker & Prescott. 3 Car coupling, N. Edwards. 3 Car coupling, W. A. Macomb. 3 Car coupling, G. H. Knowiton. 3 Car coupling, G. W. Wilson. 3 Car coupling, G. W. Wilson. 3 Car door fastener and spark arrester, box, H. C. 1 Lar, alumping, G. F. Whitman. 3 Car, railway passenger, L. C. Hyde. 3 Car, sleeping, J. W. Post. 3 Carboy carrier and stand, I. Hillebrand. 3 Carboy carrier and stand, I. Hillebrand. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene. 3 Carding machine, S. D. Keene.<	88,134 88,085 87,060 88,144 88,026 87,181 88,024 88,126 87,917 87,791 67,947 67,947 67,947 67,947 67,948 87,794 87,791 67,948 88,182 87,947 67,944 40,855 87,057 88,005 67,817 67,914 40,855 88,182 67,947 67,914 40,855 88,182 67,947 67,914 57,954 57,854
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Clip. See Hame clip. INDEX OF INVENTIONS Clothes drier, D. C. Westfall...... 368,036 Clothes pin bag, W. Jamieson...... 368,091 For which Letters Patent of the **United States were Granted** August 9, 1887, AND EACH BEARING THAT DATE. Sleigh coupling. Thill coupling. [See note at end of list about copies of these patents.] Acid, manufacture of carbonic, C. Arnols \$68,123 Ammonia in ammonia motors, etc., apparatus for Cutlery or similar articles, manufacture of, H. A. Cutter. See Meat cutter. Damper for furnace and other regulators, C. L. Annunciator, electrical, Poole & Schnepf...... \$67,925