452,675

form. It is composed of a series of similar wedgeshaped radiator sections, each adapted to receive and discharge steam or hot water from and into an integral transverse supply conduit located below each radiator section and integral with it, the sections of the radiator being held together by a holted connection of flanges on the sections of the steam or hot water supply conduit.

CLOTHES LINE PULLEY. - John J. Leuzinger, West New Brighton, N. Y. The pulley block of this device has a semicircular recess in one face, and there is a grooved pulley journaled in the recess of slightly less diameter than the recess, a band surrounding the block and affording a suspension device for it. The arrangement is such that a line will freely pass around the pulley even when the clothes are attached to the line, novel means for attaching the clothes forming also a feature of the invention.

CLOTHES DRIER. - John McKinnan, Spokane Falls, Washington, and Alexander Jameson. Missoula, Montana. This device consists of a vertical post at the top of which are carried arms to which are secured lines for supporting the clothes, forming a clothes-carrying rack which is revolved by the wind while the clothes arc suspended in elevated position. The device is so constructed that the rack may be readily tilted down to facilitate putting on and taking off the clothes.

Suspender Hook. — Elv R. Dobbs. Poughkeepsie, N. Y. This is a simple device, capable of ready attachment to a garment to take the place of buttons, and consists of a main body having a hook to receive a loop on the suspender end, and a fastening device for securing the hook on the waisthand. It can be attached or detached in a moment, and is so made that no part of the clothing can catch upon it, while the By mail, \$4; Munn & Co., publishers, 361 Broadway, N.Y. suspender end cannot become detached or wear the shirt or vest.

ROUNDABOUT.-William Mangels, New York City. This is an improvement in swings having a combined rotary and reciprocating movement, and commonly known as the "razzle dazzle." This swing is designed to be operated by a motor, and means are provided so that it shall be completely under the control of the operator when in motion, while the construction is very strong, and the parts are adapted to be readily disconnected and packed in convenient form for transportation.

Note,-Copies of any of the above patents will be furnished by Munn & Co., for 25 cents each. Please send name of the patentee, title of invention, and date of this paper.

SCIENTIFIC AMERICAN

BUILDING EDITION.

MAY NUMBER.-(No. 67.)

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- 3. Design for a staircase of pleasing and novel appearance.
- 4. Photographic views and floor plans of a colonial cottage in Armour Villa Park, Bronxville, N. Y. Cost \$2,800. W. W. Kent, architect, New York.
- 5. Engravings showing a perspective and floor plans of the residence of Mr. George Burnham, at Powelton Ave. Philadelphia, Pa.
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- 7. A dwelling at New Haven, Conn. Cost complete \$6,345. Perspective view, floor plans, etc. 8. Illustrations showing perspectives and ground plan
- of the First Presbyterian church, recently erected at Rutherford, N. J. Total cost complete \$70,000. Messrs. Fowler & Hough, New York, architects, 9. A very attractive and picturesque cottage erected at
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- Photographic view, floor plans, etc.
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Brake. See Car brake. Velocipede brake. 452,610 Bread cutting machine, S. Mirfield. 452,610 Brick machine, J. J. Kulage. 452,740 Brick machine, D. S. Plummer. 452,648 Bridge, telescopic draw, D. H. Andrews. 452,648 Brushes, etc., at angles, device for holding, P. 452,875 Brushes, machine for the manufacture of, L. 452,875 Brushes, machine for the manufacture of, L. 452,672 Buckle, J. W. Cronan. 452,652 Buckle, J. W. Cronan. 452,652 Buckle, suspender, C. R. Harris. 452,672 Buckle, J. W. Cronan. 452,652 Burglar slarm, portable, C. C. Davis. 452,579 Calendar and watch trinket or charm, combined perpetual, E. A. Cresson. 452,450 Candy whistle, H. W. Hoops. 552,766 Car brake, J. Fischer. 452,338 Car coupling, G. B. Ballou 452,332 Car coupling, G. B. Benjamin 452,632 Car coupling, G. B. Henjamin 452,570 Car dectric railway, S. H. Short. 452,570 Car, electric railway, S. H. Short. 452,570 Car, electric r	Letter box.	
Brushes machine for the manufacture of, L Strickel	Brake. See Car brake. Velocipede brake.	
Brushes machine for the manufacture of, L Strickel	Bread cutting machine, S. Mirfield	452,610
Brushes machine for the manufacture of, L Strickel	Brick machine, J. J. Kulage	452,710
Brushes machine for the manufacture of, L Strickel	Brick machine, D. S. Plummer	452,648
Brushes machine for the manufacture of, L Strickel Strickel 452,468 Buckle, J. W. Cronan 452,468 Buckle, suspender, C. R. Harris 452,374 Bung extractor, J. Baeumle 452,563 Burglar alarm, portable, C. C. Davis 452,563 Burglar alarm, portable, C. C. Davis 452,563 Burglar alarm, portable, C. C. Davis 452,578 Calendar and watch trinket or charm, combined perpetual, E. A. Cresson 452,403 Candy whistle, H. W. Hoops 452,578 Car brake, J. Fischer 452,508 Car brake, automatic, W. S. Fraser 452,508 Car coupling, G. B. Ballou 452,538 Car coupling, G. B. Beljamin 452,659 Car coupling, G. B. Hafey 452,578 Car coupling, G. P. Hafey 452,578 Car coupling, G. P. Nixon 452,570 Car dectric railway, S. S. Putnam, Jr 452,570 Car, mining, J. A. Bickford 452,401 Cars, motor mounting of electric, S. H. Short 452,590 Carpet stretcher, D. Rice 452,590 Carriages, shifting rail for, J. C. Parker 452,590	Bridge, telescopic draw, D. H. Andrews	452,630
Brushes machine for the manufacture of, L Strickel Strickel 452,468 Buckle, J. W. Cronan 452,468 Buckle, suspender, C. R. Harris 452,374 Bung extractor, J. Baeumle 452,563 Burglar alarm, portable, C. C. Davis 452,563 Burglar alarm, portable, C. C. Davis 452,563 Burglar alarm, portable, C. C. Davis 452,578 Calendar and watch trinket or charm, combined perpetual, E. A. Cresson 452,403 Candy whistle, H. W. Hoops 452,578 Car brake, J. Fischer 452,508 Car brake, automatic, W. S. Fraser 452,508 Car coupling, G. B. Ballou 452,538 Car coupling, G. B. Beljamin 452,659 Car coupling, G. B. Hafey 452,578 Car coupling, G. P. Hafey 452,578 Car coupling, G. P. Nixon 452,570 Car dectric railway, S. S. Putnam, Jr 452,570 Car, mining, J. A. Bickford 452,401 Cars, motor mounting of electric, S. H. Short 452,590 Carpet stretcher, D. Rice 452,590 Carriages, shifting rail for, J. C. Parker 452,590	Brushes, etc., at angles, device for holding, P.	450 005
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Helmond	452,375
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Brushes, machine for the manufacture of, L.	450 400
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Strickel	402,400
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Buckle, J. W. Cronan	452,092
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Bucele, suspender, C. R. Harris	452,514
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	: The solor portable C C Device	459 507
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Durklas M. D. 17-40, T-	459 579
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Colondar and match triplet on sharm combined	404,014
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	normatical E. A. Crasson	459 450
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Candy whietla W W Uoona	459 706
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car brake J. Fischer	452 269
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car brake automatic W & Frager	452 700
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car con pling, G. B. Ballon	452,35¢
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, G. B. Benjamin	452.659
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, C. J. Hafev	452.372
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-		452 680
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon	
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon	452,570
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. W. Holmes. Car, electric railway, S. H. Short.	452,570 452,622
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. Putnam, Jr.	452,570 452,622 452,530
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon Car door, W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. Putnam, Jr. Car, mining, J. A. Bickford.	452,570 452,622 452,530 452,464
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. Holmes. Car, electric railway, S. H. Short. Car fender, rallway, S. S. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short	452,570 452,622 452,530 452,464 452,621
Carriages, shifting rail for, J. C. Parker. 452,500 Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. 452,457 Cash carrier, H. Fletter. 452,458 Cash carrier, W. H. Williams. 452,458 Cash carrier, W. H. Williams. 452,458 Cash register and indicator, J. L. Townsley. 452,402 Casks, barrels, and the like, mechanism for the manufacture of S. Wright. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short. Carbon points, machine for moulding, T. B. Doo-	452,570 452,622 452,530 452,464 452,621
Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. Cash carrier, H. Fletter. 452,475 Cash carrier, W. H. Williams. 452,402 Cash carrier, W. H. Williams. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short Carbon points, machine for moulding, T. B. Dooley.	452,570 452,622 452,530 452,464 452,621 452,599
Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. 452,447 Case. See Show case. Cash carrier, H. Fletter. 452,475 Cash carrier, W. H. Williams. 452,402 Cash carrier, W. H. Williams. 452,629 Chain wheel, R. Brown. 452,767 Chair. See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. P. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short. Carbon points, machine for moulding, T. B. Dooley. Carpet stretcher, D. Rice.	452,570 452,622 452,530 452,464 452,621 452,599 452,508
Cash carrier, H. Fletter Cash carrier, W. H. Williams Cash register and indicator, J. L. Townsley Casks, barrels, and the like, mechanism for the manufacture of, S. Wright Chair, See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short Carbon points, machine for moulding, T. B. Doolers, the stretcher, D. Rice Carriages, shifting rail for, J. C. Parker.	452,570 452,622 452,530 452,464 452,621 452,599 452,508 452,500
Cash carrier, H. Fletter Cash carrier, W. H. Williams Cash register and indicator, J. L. Townsley Casks, barrels, and the like, mechanism for the manufacture of, S. Wright Chair, See Rocking and reclining chair. Sur-	Car coupling, F. G. Nixon. Car door, W. W. Holmes. Car, electric railway, S. H. Short. Car fender, railway, S. S. Putnam, Jr. Car, mining, J. A. Bickford. Cars, motor mounting of electric, S. H. Short. Carbon points, machine for moulding, T. B. Doo- ley. Carpet stretcher, D. Rice. Carriages, shifting rail for, J. C. Parker. Carrier, See Cash carrier, Sheaf carrier.	452,570 452,622 452,530 452,464 452,621 452,599 452,508 452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
Chair. See Rocking and reclining chair. Sur-	Carriages, shifting rail for, J. C. Parker	452,500
geon's operating chair.	Carriages, shifting rail for, J. C. Parker. Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce Case. See Show case. Cash carrier, H. Fletter. Cash carrier, W. H. Williams. Cash register and indicator, J. L. Townsley. Casks, barrels, and the like, mechanism for the	452,500 452,447 452,475 452,469 452,402 452,629
Room a oberwriff ensits	Carriages, shifting rail for, J. C. Parker. Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce Case. See Show case. Cash carrier, H. Fletter. Cash carrier, W. H. Williams. Cash register and indicator, J. L. Townsley. Casks, barrels, and the like, mechanism for the	452,500 452,447 452,475 452,469 452,402 452,629
	Carriages, shifting rail for, J. C. Parker. Carrier. See Cash carrier. Sheaf carrier. Cartridge box or case, L. F. Bruce. Case. See Show case. Cash carrier, H. Fletter. Cash carrier, W. H. Williams. Cash register and indicator, J. L. Townsley. Casks, barrels, and the like, mechanism for the manufacture of, S. Wright. Chain wheel, R. Brown. Chair. See Rocking and reclining chair. Sur-	452,500 452,447 452,475 452,469 452,402 452,629

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١,	Chairs for attachment for A. P. Nichols	459 540	Ironing table H M Landors
. ?	Chairs, fan attachment for, A. P. Nichols	452,686	Joint. See Electric conductor joint.
ł	Chuck, drill, Crommie & Dunn	452,363	Journal lubricator, B. V. Hubbard
] [Chuck for turning lathes, E. Lindner	452,496 452,626	Lace fastening, W. H. Hayden
18	Clamp. See Halyard clamp. Clasp. J. H. Pilkington	452,582	Lamp, electric arc, F. Buchhuan Lamp for lighting, beating, and sign
Į	Cleaner. See Boiler tube cleaner. Comb		ses, spray, G. Rose
ļ	cleaner. M. Church. M. Church. M. Church. M. Church. Jock bovement, C. Stallberg. Jocks, self-winding, F. M. Schmidt. Jothes pounder, N. B. Little. Jodice, etc., apparatus for preparing infusions of, G. R. Wilson. Collar, horse, G. S. Crosby. Jolor in least tubes, metallic water, L. Rosenfeld. Jombuctaror bush holder, I. H. Bartholomew. Jomposition of matter, F. Salathe. Jomposition and paving block, J. P. Myer. Jorden political paving block, J. P. Myer. Joylor bedstead, folding metal, E. F. Tilley Jotton by atmospheric suction, device for handling and cleaning seed, T. C. Eberhardt. Jounter for presses or other machines, H. M. Aldrich. Aldrich. Zupling. See Car coupling. Pipe coupling.	459 494	Lamps in sockets, tube for holding,
<u>.</u>	Jlock movement, C. Stalhberg	452,652	ville. Lamps, leading-in wire for incandesc. R. A. Fessenden. Latch, W. H. Bell. Latch, G. H. Van Winkle. Lathe, J. Jennings. Lathe, turning, E. Lindner. Lead sulphate, making, H. Penningt Letter box, J. Harwood. Lights, sectional shade for incandesc. Lights, shade for incandescent, elect
- (Clock, self-winding, F. M. Schmidt	452,392 452,525	R. A. FessendenLatch. W. H. Bell
: `	Coffee, etc., apparatus for preparing infusions of,	452 405	Latch, G. H. Van Winkle
- 9	Collar, horse, G. S. Crosby	452,564	Lathe, turning, E. Lindner
i	Comb cleaner, A. R. Eaton	452,365	Letter box, J. Harwood
	Commutator b ush holder, I. H. Bartholomew	452,561 452,763	Lights, sectional shade for incandeso Gartner & Harris
	Construction and paving block, J. P. Myer	452,412	Lights, shade for incandescent elect
1	Ork puller, E. Walker	452,625 452,737	& Harris. Lock. See Cylinder lock. Nut lock. lock. Sash lock. Vehicle seat loc Lock, If. A. Palmer. Loom shedding mechanism, Devigne
1	Of ton by atmospheric suction, device for hand-	452.552	lock Sash lock. Vehicle seat lock II A Pulmer
15	tton press, C. C. Ingram	452,438	Loom shedding mechanism, Devigne
ľ	Aldrich	452,687	Loom sbedding mechanism, J. H. St. Lubricator. See Journal lubricator.
18	Aldrich	452,679	cator.
ľ	ut-off and filter, combined rain water, W. W.	459 529	Lubricator, H. Myers. Mail bag catcher, K. Loach. Mandolin, F. E. Colt Mechanical movement, W. Suess.
1	Bays Cut-off, water pipe, G. W. Howell Cutter. See Cigar cutter. Cylinder lock J. H. Woolston	452,644	Mechanical movement, W. Suess
18	Cutter. See Cigar cutter.	452 588	
13	Cylinder lock, J. H. Woolaston	452,740	Microphone, A. C. F. Muller
ŀ	Berris, means for collecting and removing floating, F. Correll. Dental mallet, W. H. Dibble. Denture, artificial, J. J. Stedman. Sek and seat support, J. F. McElroy. Bosk cabinet, G. C. Harding. Disk for oscillating disk actions, form of, J. Thomson.	452,595	Microphone, A. C. F. Muller. Mill race fender and screen, P. R. Gr. Mineral wool, manufacturing, C. H. Mould. See Suppository mould. Money changer, M. B. Lowrey. Motor. See Electric motor.
H	Dental mallet, W. H. Dibble	452,665 452,653	Mould. See Suppository mould.
	esk and seat support, J. F. McElroy	452,527	Motor. See Electric motor.
ļ	D. sk for oscillating disk actions, form of, J.	402,011	Net frame, A. F. & W. Meisselbach
ŀ	Thomson	452,487	Musicholder, S. T. Walker Net frame, A. F. & W. Meisselbach Nut lock, W. C. Ayres. Nut lock, S. M. Churcbill. Orderste vided C. P. Elliott
Ь	Thomson	452,488	Ordnance, rifled, G. R. Elliott Ore concentrator, Manuel & Reeves.
Ĭ.	ting the action of oscillating, J. Thomson	452,489	•re concentrator, H. Scovell •veralls, M. Pfaff
	osci llating, J. Thomson	452,486	Pails, M. Pfaff. Pails, winder for making fiber, E. Hu
: :	Door spring, C. W. F. Thode	452,418	Paint, warish, japan, etc., F. Salathe. Pain. See Bake pan. Dust pan. Paper holder and cutter, roll, J. H. C. Paper holder and cutter, roll, A. Q. F. Pencil tip, O. Mussinan, Jr. Petroleum, refining crude, C. C. Men. Photographic printing frames, supp.
1	Dowel driver and setter, G. W. Fernald	452,519 452,355	Paper holder and cutter, roll, J. H. C. Paper holder and cutter, roll A. C. F.
	Dust collector, O. M. Morse	452,544	Pencil tip, O. Mussinan, Jr.
1:	Dust pan and broom holder, G. H. Bisbop	452,358	Photographic printing frames, support
ľ	Dynamo or motor, bipolar, A. L. Riker Dynamometer, J. Emerson	452,718 452,602	Pictures, etc., hanger for, L. J. Wyli
ļ	Dynamometer, coin-freed, C. A. & A. Barrett	452,688 452,735	Piles, apparatus for preserving, F. B. Pipe coupling, steam and air, H. F. C. Planing and sizing machine, H. N. B. Plants corr. S. Huffren.
Ė	Electric conductor joint, Carroll & Lambert	452,516	Planing and sizing machine, H. N. B
:	Electric machine or motor, dynamo, F. A. Wessel	452,420	Planter, corn, S. Huffman Planter, corn, F. F. Macc Planter, corn, F. F. Macc
: :	Electric motor, E. Gray	452,429 452,717	Planter, cotton seed and corn, A. Kle Plug, E. B. & E. E. Saxton. Pneumatic tube apparatus, M. Barri Polishing machine, J. B. Bennett.
:	Electric motors, controlling device for, F. O.	450 400	Preumatic tube apparatus, M. Barri.
:	Disk for oscillating disk actions, hard rubber, J. Thomson. Disks, mechanism for controlling and transmitting the action of oscillating, J. Thomson. Disks, mechanism for controlling the action of oscillating, J. Thomson. Disks, mechanism for controlling the action of oscillating, J. Thomson. Oscillating, J. Thomson. 402,865, Door check, pheumate, R. R. Ball. Door spring, C. W. F. Thode. Dowel drive and settler, G. W. Fernald. Drill chattering machines, gang, A. Ball. 452,354, Drill chattering machines, gang, A. Ball. Dist case A. M. Dowling. Dust pan and brown holder, G. H. Bis bop. Dynamoneter, J. Emerson. Dynamometer, J. Emerson. Dynamometer, J. Emerson. Dynamometer, Confered, C. A. & A. Barrett. Electric conductor joint, Carroll & Lambert. Electric ight fixture, J. G. Fischer Electric motor, E. Gray. Electric motor, E. Gray. Electric motors, controlling device for, F. O. Blackwell. Electric motors, controlling device for, F. O.	202,422	Polishing machine, J. B. Bennett Potters' use, manufacture of pine
1	Blackwell	452,423 452,397	Donaghue
:	Blackwell Electric push button, M. Strauss. Electric switching apparatus, G. T. Briggs. Electric witching apparatus, G. T. Briggs. Electric wire, glass covered, W. Curry. Electric wire, glass covered, W. Curry. Electricity and charging secondary batteries, wind apparatus fir generating, J. M. Mitchell. Elevator, D. E. Crosby. Elevator, C. E. Foster. Elevator wells, device for automatically closing doors to, J. C. Reed. Eliptic spring, G. W. Morris. Embroidered fabric, A. Meyer-Kreis. End gate, wagon, W. C. Foster. Engine. See Explosive engine. Gas engine. Steam engine. Traction engine.	452,359	Power transmitting device, C. B. Warness. See Baling press. Cotton
•	Riectricity and charging secondary batterles,	402,000	press. Printing press. Printing machine, web, L. C. Crowell
Ė	wind apparatus for generating, J. M. Mitchell. Elevator, D. E. Crosby	452,546 452,426	Printing machine, web, L. C. Crowell Printing machines, printing attached delivery mechanism of web, L. C.
i	Elevator, C. E. Foster	452,370	Printing peripheries of spools and obodies, machine for, Davis & Bro Printing press, G. P. Fenner. Printing press attachment, M. N. &
-	doors to, J. C. Reed	452,415	Printing press, G. P. Fonner
ļ	Elliptic spring, G. W. Morris Embroidered fabric. A. Meyer-Kreis	452,612 452,579	Printing press attachment, M. N. &
: :	End gate, wagon, W.C. Foster	452,4 36	lin
1	Steam engine. Traction engine.	450.051	Propeller, boat, C. E. Fox.
	Envelope fastener, G. H. Randall	452,651 452,731	Puller. See Boat puller. Cork puller
	Envelope moistening and stampattaching device,	459 CC1	Pulley, band, A. C. Pessano
ļ	Excavating apparatus, J. S. Whitcomb	452,452	Pump, bottle, L. Heitmann.
:	End gate, wagon, W. C. Foster. Engine. See Explosive engine. Gas engine. Steam engine. Traction engine. Envelope fastener, G. H. Randall. Envelope machine, R. W. Pittman. W. E. Brown. Exoavating apparatus, J. S. Whitcomb. Exoavating apparatus, J. S. Whitcomb. Expelsior machine, J. B. Johnson. Explosive engine, A. Harding. Extractor. See Bung extrator. Eyeglass holder, C. E. Carpenter. Fabric. See Embroidered fabric. Fare card for use at ferries, A. M. Lynes. Faucet, Moore & Grim. Faucet, beer, J. Delee. Feed mechanism. F. H. Richards.	452,520	Pump, rotary, N. Nilson
:	Extractor. See Bung extrator. Eveglass holder. C. E. Carpenter	452.747	Pump, steam vacuum, A. H. Dodd
÷	Fabric. See Embroidered fabric.	459 407	Pumping apparatus, automatic, Whi
1	Faucet, Moore & Grim	452,526	Railway frog, D. Horrie
1	Faucet, beer, J. Delee Feed mechanism. F. H. Richards	452,695 452,431	Railway signal, Selden & Ott Railway switch. Lewis & Hosie
1	Faucet, Moore & Grim. Faucet, beer, J. Delee. Feed mechanism, F. H. Richards. Fenne machine, picket wirring, E. F. Morton Fenne, wire, M. M. Shellaberker. Fender. See Car fender. Mill race fender. File, letter, F. M. Baker. Fire hose, electric signal apparatus for, J. F. Klumpn Jr.	452,613 452,620	Pump, vacuum, Mckerson & Berren Pumping apparatus, automatic, Whi Railway frog, D. Horrie. Railway frog, D. Horrie. Railway switch, Lewis & Hosie. Railway switch the West & Hosie. Railway switch stand, A. A. Gibson. Railway system, electric, D. G. Wee Railway train signal and recorder, e
1	Fender. See Car fender. Mill race fender.	450.050	Railway train signal and recorder, e
	Fire hose, electric signal apparatus for, J. F.	402,303	Railways truiley davice for electric
	Klumpp, Jr. Fliers, manufacture of centrifugal pressers for speeder, B. F. Nicholas. Frame. See Net frame. Window frame.	452,506	Railways, trolley device for electric, Rat trap, F. A. Johnson Ratchet drlll, brace, and breast dril L. F. Wright.
ł	speeder, B. F. Nicholas	452,647	L. F. Wright.
	Fruit gatherer, J. A. Ferguson	452,493	Register. See Cash register. Time
	Fruit gatherer, J. A. Ferguson. Fruit gatherer, J. G. Harris. Furnace. See Blast furnace. Glass furnace.	452,704	Megantering rock, w. F. Beasley
ŀ	Furnace, J. Murphy	452,414 452,618	Rocking and reclining chair, com
[Furnace. See Blast furnace. Glass furnace. Furnace, J. Murphy. Furnace bosh plate, J. Scott. Gauge. See Water gauge. Gauge, C. W. Morrill. Game, F. Huff. Game puzzle, C. P. Harris. Garment holder, E. L. •Connor	459 677	Rolling girder rails, method of and a Read & Thomas
i	Game, F. Huff.	452,708	Ropeways, gripper for buckets of, T.
÷	Game puzzie, C. P. Harris	452,727	Ropeways, gripper for buckets of, T. Rubber and metal, manufacturing combined hard, F. Lambert Rubber, production of reclaimed, 1
Ē	Gas, apparatus for impregnating liquids with, U. Bachmann	452.512	Rubber, production of reclaimed, l
:	Gas engine, E. W. Evans	452,568	Saddle, harness, J. Smith
÷	ture of, W. P. Elliott	452,697	Sage brush, machine for cutting, J. 1
-	Gas, apparatus for impregnating induces with, U. Bachmann. Gas engine, E. W. Evans. Gas, process of and apparatus for the manufacture of, W. P. Elliott. Gasometer, F. A. Sabbaton Gate. See End gate.	402,010	Sash holder, C. S. Apple
} -	Gearing and the application thereof to water meters, differential, J. Thomson	452,490	thal saddle, harness, J. Smith. Saddle, harness, J. Smith. Safe, burglarproof, W. Corliss. Sage brush, machine for cutting, J. I. Sash fastener, W. H. King. Sash hokler, C. S. Apple. Sash lock, automatic, L. R. Schmalh Saw, L. Rothgery. Saw guide, band, W. L. Zumbro. Sawmill carriages, side-throw med.
í	Gearing and the application thereof to water meters, differential, J. Thomson. Gearing, forming the teeth of face, F. Lambert Generator. See Steam generator. Glass furnace, J. A. Weyer. Glassware, L. Schaub. Glassware, manufacturing articles of, W. K. Elson.	452,480	Saw guide, band, W. L. Zumbro Sawmill carriages, side-throw mech
	Glass furnace, J. A. Weyer	452,462	Saw shin carriages, succuriow meer Bickhart. Saw set, C. C. Taintor. Saw sharpening machine, W. W. Co Scale, platform, C. H. Huggett. Scoring machine, T. C. Baiter. Scourer. See Grain scourer. Scourer. See Grain scourer.
1	Glassware, manufacturing articles of, W. K.	450 4FC	Saw sharpening machine, W. W. Co
	Elson. Grain binder, J. R. Severance	, 452,452 , 452,460	Scoring machine, T. C. Baiter
:	Grain binder feeding mechanism, J. R. Seve-	. 452.4 58	Screwdriver, J. H. Satterlee
;	Grain binder knotting mechanism, J. R. Seve-	459 457	Screwdriver, J. H. Satterlee Screws, manufacture of, Nettlefold
) :	rance Grain binder knotting mechanism, J. R. Seve- rance. Grain binders, bundle discharger for, J. R. Seve- rance. Grain binders, bundle discharger for, J. R. Seve- rance. Grain sequence A. C. Brantingham	459 404	Seeder, A. Smith
÷	rance Grain sceurer, A. C. Brantingham Grate, W. H. Russell Gun, breech-loading, W. R. Finch Hair scenery and ornaments, producing human, A. E. Jarvis Halyard clamp, W. H. Phillips. Hame, W. Easterbrook Handle See Velotiede handle	. 452,461 . 452,434	Sewer trap, A. C. Drury. Sewing machine thread guiding di Staples. Sewing machine trimming attachme Shaft hanger, A. C. Pessano. Sheaf carrier, J. W. Latimer.
,	Gun, breech-loading, W. R. Finch	. 452,734 . 452,699	Staples
?	Hair scenery and ornaments, producing human,	452 599	Shaft hanger, A. C. Pessano Sheaf carrier, J. W. Latimor
) :	Halyard clamp, W. H. Phillips.	452,387	Bucars, C. H. McKee
i	Handle. See Velocipede handle.	402,000	Shears, C. H. McKee. Sheet metal, die for forming a Wright & Yearnans. Shoe fastening, G. A. Weld. Show case, revolving, O. H. Kean.
	Hanger. See Shaft hanger. Harness, electric device for, A. B. Holson	. 452,571	Show case, revolving, O. H. Kean
	Harrow, E. E. Whipple.	452,724	Shuttle, self-threading, J. H. Nason
,	Harvester, bean, F. W. Miller	452,440	Sign, luminous, C. Beck Signal See Railway signal. Railw
:	Harvester reel, W. Fonger	. 452 ,369 -	· S'phoning apparatus. F. Stark
) :	Hamde, W. Easterbrook Handle, See Velocipede handle. Hanger. See Shaft hanger. Harness, electric device for, A. B. Holson. Harrow, E. E. Whipple. Harrow, and cultivator, M. B. Gooing. Harvester, bean F. W. Miller. Harvester reel, W. Fonger. Hats, etc., safetylocking guard for, W. H. Tbompson. Son. Hay press, R. A. Grant. Heating apparatus, burner for, E. H. Allain.	. 452,682 . 452,604	S'phoning apparatus, F. Stark Skate, snow, R. W. Kydd Slotting machine, H. B. Robischung
3	Heater. See Hot water heater.	AEG OFF	Soap, making hard potash, J. N. Zei
	Heating purposes, hot, water circulation apparatus	. 402,352 3	Soap, making hard potash, J. N. Zei Soap, securing backs to, J. Uster Sodawater apparatus, J. B. Herron.
5	f r R. Bottsford	. 452,504 . 452,478	Soldering machine, can, S. J. Senece Solutions, apparatus for concentrations
3	Heater. See Hot water heater. Heating apparatus, burner for, E. H. Allain f r R. Bottsford Hinge, lock, Hunter & Knight Hinge, spring, W. R. Webster Hoe, H. M. Brown Hoisting machinery, A. J. Shaw Holdtr. See Commutator brush holder. Byeglass holder. Garment holder. Insulator holder. Lamp shade holder. Music holder. Paper holder. Sash holder. Watch maintry ing holder. Hook. See Whiffictree hook.	. 452,685	Solutions, apparatus for concentration Spokeshave, J. F. Magnuson
í	Hoisting machinery, A. J. Shaw	452,619	o Spring. Hee Door spring. Elliptic
7	glass holder. Garment holder. Insulator	-	Stamp, automatic time, P. G. Girouc Stand. See Railway switch stand.
2	holder. Lamp shade holder. Music holder. Paper holder. Sash holder. Watch main		Standard, T. F. Heilly. Steam engine, W. P. Scates. Steam engine, P. W. Willans. Steam generator, N. T. Pitkin. Steam generator, N. T. Pitkin.
۱ ۱	pring holler.		Steam engine, P. W. Willans
8 1	Hook. See Whiffictree hook. Hook making machinc, wardrobe, P. Miles Hot water circulation, system of, R. Bottsford Hot water heater, F. J. Furman	. 452,715	Stem generator, N. T. Pitkin Stem generator, J. I. Thornycroft
	Hot water circulation, system of, R. Bottsford	. 452,505 . 452,637	Steam generator, J. I. Thornycroft. Steam generator, L. N. Tonns. Steamer, M. S. C. Hartmann.
š :	Hot water heater, F. J. Furman		Stooring goar for voscole D. Wolch
8:	Hydrocarron burder attachment, J. w. Coone	452,004	i Stendiling machine C II meeticn
2.	Hydrocarron burder attachment, J. w. Coone	452,004	Stone crushing machine. J. O'Neil
0	Hydrocarbon product, F. Salathe	. 452,764 . 452,764	Store service apparatus, J. T. Cowle Store service apparatus, C. E. Foste
0	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance footbashion works of comparators. T. Winkler.	. 452,536 . 452,764 . 452,536	Stone crushing machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, c. E. Foste Store service apparatus, buffer for, ' Stove cook J. J. Gould
200	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- Ice making machines, compression pump for, E.	452,764 . 452,536 . 452,534	Stone crushing machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, c. E. Foste Store service apparatus, buffer for, ' Stove cook J. J. Gould
2020	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- Ice making machines, compression pump for, E.	452,764 . 452,536 . 452,534	Stone crusning machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, C. E. Foste Store service apparatus, buffer fer, ' Stove, cook, J. J. Gould. Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for. Thom
2002	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- Ice making machines, compression pump for, E.	452,764 . 452,536 . 452,534	Stone crusning machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, C. E. Foste Store service apparatus, buffer fer, Stove, cook, J. J. Gould Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mon Stuffing boxes, substitute for, Thon ber Sugar from molasses, extracting,
2002041	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- lee making machines, compression pump for, E T. Winkler Ice making machines, condenser coil for, E. T. Ice making machines, condenser coil for, E. T. Ice pick, F. P. Pfleghar.	452,536 452,534 452,534 452,534 452,535 452,535	Stone crusning machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, c. E. Foste Store service apparatus, buffer fer.' Stove, cook, J. J. Gould. Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for, Thom ber Sugar from molasses, extracting,
2002041	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- lee making machines, compression pump for, E T. Winkler Ice making machines, condenser coil for, E. T. Ice making machines, condenser coil for, E. T. Ice pick, F. P. Pfleghar.	452,536 452,534 452,534 452,534 452,535 452,535	Stone crusning machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, c. E. Foste Store service apparatus, buffer fer.' Stove, cook, J. J. Gould. Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for, Thom ber Sugar from molasses, extracting,
2002041	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- lee making machines, compression pump for, E T. Winkler Ice making machines, condenser coil for, E. T. Ice making machines, condenser coil for, E. T. Ice pick, F. P. Pfleghar.	452,536 452,534 452,534 452,534 452,535 452,535	Stone crusning machine, J. O'Neil. Store service apparatus, J. T. Cowle Store service apparatus, c. E. Foste Store service apparatus, buffer fer.' Stove, cook, J. J. Gould. Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for, Thom ber Sugar from molasses, extracting,
2002041 980 7 592	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Winkler. Ice making machines, compression pump for, E. T. Winkler. Ice making machines, condenser coil for, E. T. Winkler. Ice pick, F. P. Pfigghar. Inswell, automatic, W. C. Parsons. Insulated electric conductor, J. B. Williams, 1. Salathe. F. Salathe. 452,500 Insulator, electric, B. Jennings. Insulator, olderfor, B. Jennings. Insulator, olderfor, B. Jennings. Insulator, olderfor electric railways, B. Jen.	452,764 452,536 452,536 452,537 452,535 452,535 452,481 0, 452,725 452,726 452,725	Stone crusning machine, J. O'Neil Store service apparatus, J. T. Cowle Store service apparatus, C. E. Foste Store service apparatus, buffer fer, ' Stove, cook, J. Gould Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for, Thon ber Supar from molasses, extracting, Mahoudeau Supporter. See Athlete's supporte Suppository mould, Archibald & Sn Surgeon's operating chair, R. B. Ro Surgeon's operating chair, R. B. Ro Suspenders, Elliott & Bemis. Switch. See Railway switch.
2002041	Hydrocarbon product, F. Salathe. Ice making and refrigerating machine, E. T. Winkler. Ice making apparatus, oiling and cooling appliance for the piston rods of pumps for, E. T. Wink- Ice making machines, compression pump for, E.	452,764 452,536 452,536 452,537 452,535 452,535 452,481 0, 452,725 452,726 452,725	Stone crusning machine, J. O'Neil Store service apparatus, J. T. Cowle Store service apparatus, C. E. Foste Store service apparatus, buffer fer, ' Stove, cook, J. Gould Stove, slow combustion, A. S. Tomk Street sweeping machine, C. H. Mor Stuffing boxes, substitute for, Thon ber Supar from molasses, extracting, Mahoudeau Supporter. See Athlete's supporte Suppository mould, Archibald & Sn Surgeon's operating chair, R. B. Ro Surgeon's operating chair, R. B. Ro Suspenders, Elliott & Bemis. Switch. See Railway switch.

	Journal lubricator, R. V. Hubbard. Knitting machine, straight, C. F. Young. Lace fastening, W. H. Huyden. Lamp, electric arc. F. Buchanan. Lamp for lighting, beating, and signaling purposes, spray, G. Rose. Lamp sade bolder, J. Jauch. Lamps in sockets, tube for holding, J. Dardonville.	452,477 452,559 452,753 452,753
	Lamp, electric arc, F. Buchanan. Lamp for lighting, heating, and signaling purposes, spray, G. Rose. Lamp s ade bolder, J. Jauch	452,633 452,390 452,573
i	Lamps in sockets, tube for holding, J. Dardon- ville Lamps, leading-in wire for incandes cent electric, R. A. Fessenden.	452,364 452,494
İ	Lamps, leading-in wire for incandescent electric, RA h. Fessenden Latch, W. H. Bell. Latch, G. H. Van Winkle. Lathe, J. Jennings.	452,494 452,657 452,738 452,524 452,495
	Lead sulphate, making, H. Pennington Letter box, J. Harwood Lights, sectional shade for incandescent electric,	452,495 452,386 452,705
:	Latch, G. H. Van Winkle. Lathe, J. Jennings. Lathe, turning, E. Lindner. Lead sulphate, making, H. Pennington. Letter box, J. Harwood Lights, sectional shade for incandescent electric, Gartner & Harris. Lights, shade for incandescent electric, Gartner & Harris. Lock. See Cylinder lock. Nut lock. Registering	452,638 452,701
:	& Harris. Lock. See Cylinder lock. Nut lock. Registering lock. Sasb lock. Vehicle seat lock. Lock Jr. A Palmer Loom stedding mechanism, Devigne & Durand Loom stedding mechanism, J. H. Stone. Lubrleator. See Journal lubricator. Wheel lubri-	452,385 452,451 452 396
:	Lubricator. See Journal lubricator. Wheel Jubricator. See Journal lubricator. Wheel Jubricator. Lubricator. H. Myers.	
İ	cator. cator. cator. Lutricator, H. Myers. Mati baz catcher, K. Loach. Mantolin, F. E. Cote. Mechanical movement, W. Suess. Metal, machine for indenting letters or figures in, Hill & Foss. Microphone, A. C. F. Muller. Mill race fender and screen, P. R. Grabill. Mineral wool, manufacturing, C. H. Rockwell, Mould. See Suppository mould. Money changer, M. B. Lowrey. Motor. See Electric motor. Musicholder, S. T. Walker. Net frame, A. F. & W. Meisselbach. Nut lock, W. C. Ayres. Nut lock, S. M. Churchill. Ordnance, rified, G. R. Elliott. Ore concentrator, Manuel & Reeves.	452,711 452,465 452,654
ļ	Hill & Foss	452,605 452,758 452,702
:	Mineral wool, manufacturing, C. H. Rockwell, Mould. See Suppository mould. Money changer, M. B. Lowrey	452,733 452,757
:	Musicholder, S. T. Walker. Net frame, A. F. & W. Meisselbach. Nut lock, W. C. Ayres.	452,683 452,381 452,511
	Pro concentrator H Scovell	3.57 (0.0)
:	everalls, M. Pfaff. Pails, winder for making fiber, E. Hubbard. Paint, varish, japan, etc., F. Salathe. Pan. See Bake pan. Dust pan. Paper holder and cutter, roll, J. H. Cornelison Paper holder and cutter, roll, J. O. Ross452719.	452,528 452,707 452,761
:	Paper holder and cutter, roll, J. H. Cornelison Paper holder and cutter, roll, A. Q. Ross452,719, Pencil tip, O. Mussinan, J. Petroleum, refining crude, C. C. Mengel, Sr. Photographic printing frames, support for, A. J.	452,690 452,720 452,499
İ	Pictures etc. hanger for I. I Wylle	452,406
!	Piles, apparatus for preserving, F. Batter Pipe coupling, steam and air, H. F. Chapin	452,513 452,689
:	Planter, corn, S. Hustiman. Planter, corn, F. F. Macc. Planter, cotton seed and corn, A. Kleiser. Plug, E. R. & E. E. Saxton. Plug, E. R. & E. Saxton.	452,709 452,411 452,674 452,721 452,471 452,632
:	Potters' use, manufacture of pins for, C. W.	
:	Donaghue	452,435 452,445
:	Printing machines, web, L. C. Crowell. Printing machines, printing attachment for the delivery mechanism of web, L. C. Crowell	452,693 452,596
i	Printing press, G. P. Fonner	452,596 452,698
	Printing press grip, B. H. Bowman Projectile for ordnance, G. R. Elliott	452,491 452,745 452,567 452,467
	Propelling vessels, means for, E. W. Gram. Propelling vessels, means for, E. W. Gram. Puller. See Boat puller. Cork puller. Puller, band, A. C. Pessano. Pump, beer, J. C. Magee. Pump, bottle, L. Heitmann. Pnmp, pulsating steam, W. P. Theermann. Pnmp, purary N. Wilson.	452,669
	Pump, beer, J. C. Magee. Pump, bottle, L. Heitmann. Pnmp, pulsating steam, W. P. Theermann. Pump, rotary, N. Nilson.	452,609 452,644 452,400 452,720
İ	Pump, rotary, N. Nilson. Pump, steam vacuum, A. H. Dodd. Pump, steam vacuum, A. H. Dodd. Pump, vacuum, Nikerson & Berrenberg. Pumping apparatus, automatic, White & Miller Railway conductor electric E. W. Mitchell	452,749 452,441 452,628 452,611
!	Pump, steam vacuum, A. H. Dodd. Pump, vacuum, Nickerson & Berrenberg. Pumping apparatus, automatic, White & Miller. Railway conductor, electric, E. W. Mitchell. Railway signal, Selden & Ott. Railway switch, Lewis & Hosie Railway switch stand, A. A. Gibson.	452,724 452,744 452,62 452,61 452,67 452,38 452,71 452,54
:	Pailway system, electric, D. G. Weemes	452,543 452,741 452,511
i	Brown Railways, trolley device for electric, D. N. Cook. Rat trap, F. A. Johnson. Ratchet drll, brace, and breast drill, combined, L. F. Wright. Reel. See Harvester reel. Register. See Cash register. Time register.	452,542 52,578 452,589
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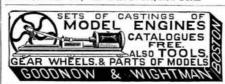
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