RECENTLY PATENTED INVENTIONS. Pertaining to Apparel.

CLOTHES-HANGER .- H. K. SMITH. Union S. C. The invention provides a hanger which can be used for hanging up suits, jackets, etc., and which will dispense with the ordinary hooks in connection with the body or main bar of the hanger. The hanger will prevent snagging or tearing of garments resulting in the rush of business from the use of hooks in suspending the garment hangers.

Of General Interest.

MOLD AND MEANS FOR MAKING THE SAME .- E. A. CONNER, Tacoma, Wash. The mold is more especially designed for use in making concrete columns such as are used in buildings and other structures to permit of its being conveniently and quickly built up and each part accurately placed in position and firmly secured one to the other, and parts of sheet. the mold being readily removable after the column is built.

FIREPROOF WALL.-W. DRYDEN, New York, N. Y. The invention relates to fireproof construction, and the object is to produce a wall which will resist the passage of flame through it. It concerns itself not only with the construction of the wall itself, but also with the blocks out of which the wall is constructed.

COLLAPSIBLE PACKING-BOX. — M. LYNCH, JR., New York, N. Y. The aim in this instance is to provide a packing box, more especially designed to take the place of expensive wooden packing boxes, and which is durable in construction, capable of standing hard usage in shipping and the like, and at of the box.

Machines and Mechanical Devices.

CLOCK COMBINED WITH COIN-FEED WINDING-UP APPARATUS .- A. G. P. WIIN-GAARD, Romersgade 3, Copenhagen, Denmark. The present invention pertains to a clock in which a clock combined with a winding up mechanism is provided with a stop device arranged in the clock, which device when in the normal position prevents the clock from being wound up. This device is released by means of a coin introduced into the clock through a coin chute.

CHANGEABLE-SPEED GEARING. -Morrow, Fremont, Neb. The gearing is such as used in connection with motor cycles or any other types of machinery where it is desirable to increase or decrease the speed rapidly while the machine is in motion. One object of the invention is to provide a changeable speed throws the wagon or that it is overthrown by belt driver which may be adjusted while the machine is in motion.

MICROMETER-GAGE. — L. MASTRANGEL, New York, N. Y. The invention provides a standard serving as a support for a laterallyextending arm, and at the end of the arm an indicating mechanism is provided whereby the distance between the end of a movable member at the end of the arm and the base member at the end of the arm and the base i. e., toward the corner it is turning. This for the standard may be read on a suitable is the only case in which a vehicle turning a dial carried by the arm.

ORE TO BLAST-FURNACES .- E. L. HARPER, JR., Big Stone Gap, Va. This invention reextremely fine state of subdivision, to blast furnaces, in such a manner that it will not be blown out immediately by the blast, but will become amalgamated with the molten mass in the bosh of the furnace.

DIPPING-MACHINE.-W. B. CROCKER, New York, N. Y. This invention relates to confectionery machines, and its purpose is to provide a machine, more especially designed for coating marshmallows held on biscuits or cakes with chocolate, icing, cocoanut or other coating material and without submerging the biscuits or cakes in the material.

BREAKAWAY-CLUTCH FOR ELEVATORS AND MINE-CAGES -M. C. HUTCHINGS, Bozeman, Mont. The invention relates more particularly to self-detaching hooks such as are already known for use in the attachment of the winding drum is beyond control.

Railways and Their Accessories.

RAILWAY-WHEEL MOUNTING.—J. H. BROWN, New York, N. Y. The purpose herd is the minimizing of the friction incident to, and the power required in, rounding curves, and reducing lateral stress on rails tending to spread the gage. To this end the wheel is pivotally supported at one side to swing in a horizontal plane, which admits of the turning of the wheel, by the contact of the flange with the rail, in the direction of the track. This is preferably done by journaling the axle in a bearing-box at the outside of the wheel, having substantially vertical trunnions.

LIFTING DEVICE, ... J. P. RENEKER, Logans port, Ind. The invention relates to lathes for turning a pair of car or locomotive wheels mounted on an axle, and its object is to provide a device arranged to permit of conveniently lifting the wheels to bring the arla in

axial alinement with the lathe centers, for the latter to engage the axle and allow the same to be rotated for turning the wheels.

Note.—Copies of any of these patents will e furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.



Kindly write queries on separate sheets when writing about other matters, such as patents, subscriptions. books, etc. This will facilitate answering your ques tions. Be sure and give full name and address on every

Full hints to correspondents were printed at the head of this column in the issue of March 13th or will be sent by mail on request.

(12055) E. E. B. asks: 1. Could a 24-volt storage battery in an automobile be replaced with 12 dry batteries of 2 volts each in case of emergency? A. A dry cell when fresh may have 1.4 volts. To replace a 24-volt storage battery will require as many dry cells as 1.4 is contained in 24 volts, or 17 dry cells. 2. Would the motor in Supple MENT No. 641 run a bicycle if more cells of battery were used? A. The motor in Supple MENT No. 641 is not adapted to be attached to a bicycle, nor has it power enough to drive a bicycle. 3. Please give me formula for the same time fully protecting the contents bichromate battery, and also for chromic acid battery. A. For a bichromate of potash solution take water 1 gallon, sulphuric acid 1 quart, and potassium bichromate 1 pound. Pour the acid into the water slowly with constant stirring, and add the bichromate while hot. Use when cold. Bichromate of soda may be used in place of the potash salt; many think to better advantage. For a chromic acid solution take 6 quarts of water, 1 pint sulphuric acid, and 1.5 pounds chromic acid. Mix and use as above.

(12056) C. C. W. asks: Will you kindly answer and settle a very simple but confusing question? A horse running away attached to a four-wheeled wagon turns a corner sharply, and the wagon overturns. Which way does it tip over? That is, in or toward the corner or outward or away from the corner? It is not supposed that the wheels stick in striking an obstruction that overgoing around the corner, the corner being a curve, can the inside wheels get off the ground? Will not the outside wheels gradually rise from the ground until the wagon tips in or toward the corners? A. Under the conditions you mention, when the wheels lock against the side of the buggy, it must turn over toward the side upon which the wheels are locked corner too sharply overturns inward; in an APPARATUS FOR FEEDING FLOUR IRON automobile, for instance, turning a right-hand RE TO BLAST-FURNACES.—E. L. HARPER, corner, the right-hand wheels leave the ground first and it turns over onto its left side from fers to improvements in the apparatus for use its momentum tendency to go straight on. The in feeding of flour iron ore, that is, ore in an causes are different in the case of the buggy, the inner side being first retarded by the locking of the wheel.

(12057) C. B. B. asks: I have a problem to submit, the solution of which will confer a great favor upon the writer. There are two large public halls with practically no ventilation; one is illuminated by gas, the other with electricity. Both rooms are occupied by the same number of people. In which room, the former or latter mentioned, is the air purest? Does not the gas have a tendency to purify the oxygen by consuming a large percentage of the impure air or hydrogen? A. Although not at all for the reasons you give, it has been sufficiently proven that under equal conditions of ventilation (whether good or bad) the air at breathing level in any room illuminated by gas will, after several shaft cages or the like to the swing chains. | hours' occupation by a number of persons, be An object is to provide a self-detaching hook more healthful than if the same room was which will automatically release the cable-hold electrically lighted. The products of combus when the elevator car or cage has been drawn tion of a gas flame in air are largely identical too high, as, when the engine which operates chemically and nearly identical physically with those of exhalation from human lungs, and as the least quantity of gas consumed by a single burner (say 4 cubic feet of gas per hour for an atmospheric incandescent mantle) produces 2 cubic feet of carbon dioxide per hour, while an average man breathes out only 0.6 cubic foot per hour, one gas burner vitiates the air of a room more than do three persons. As incandescent electric lamps not merely add nothing to the impurities of the atmosphere, but withdraw no oxygen from it, it has been assumed not unnaturally that it must be the most hygienic form of illumination to employ; but in the years which have elapsed since electricity was first used for lighting purposes, experience has increasingly proved the contrary. The burning of gas does not in any way purify the air or consume any irrespirable constituents—quite the contrary; but because the heating effect of gas in proportion to its lighting effect is so much higher than that of electricity, the carbon dioxide, otherwise much beavier than air, is heated sufficiently to rush

to the ceiling of a room, where its descent Castin upon cooling is prevented by diffusion. explanation involves chemical, physical, and physiological considerations and cannot be at all completely given here, but you will find it admirably discussed in an article by Prof. Vivian Lewes, a high authority on this subject, in our Supplement, Nos. 1661 and 1662, which we shall be glad to send for 10 cents each. postage paid.

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| Box coupling, junction, E. S. Morrell. Box covering machine, E. W. Labombarde Box tock, carrier, L. L. Savoy. Box polane, core, C. E. Martin. Bronaing machine, H. Lamberger. Brough holder, L. J. Powers. Brush, H. Alexander. Brush, H. Alexander. Brush holder, W. A. Turbayne. Brush holder, W. A. Turbayne. Bucket, dumping, J. H. Lance. Buckle, H. D. Sargent. Buckle, F. Loeb. Building construction, S. Toye. Building, freproof, M. J. Dawkins. Bundle tie, J. E. Wright. Burial case or vault, McCormick & Kridler. Burial case or vault, McCormick & Kridler. Burial vault, Weltner & Allehaugh. Butter cutter, J. G. & B. B. Carmichael. Cable tension holder, E. J. Hoode. Cage lock, J. W. Unger. Calendar, perpetual, J. F. Stimson. Calk, detachable, W. J. Koontz. Camera finder, W. E. Shanley. Camera tripod, W. C. Evvans. Can cover, milk, T. Bray. Can cover, milk, T. Bray. Can top, H. L. Freeborn. Canning furnace, C. C. May. Capping machine, Mueller & Gwinn. Car, dump, F. Seaberg. Car, hand propelled, C. D. Orcutt. Car passenger registering apparatus, J. J. McDermott Car passenger compling, P. & Sengeal. | 916,198 915,725 916,249 915,990 916,971 915,799 916,344 916,330 916,886 916,031 916,793 916,182 916,182 916,182 916,182 916,182 916,182 916,182 916,183 916,936 916,344 916,353 916,936 916,351 |
| Box coupling, junction, E. S. Morrell. Box covering machine, E. W. Labombarde Box tock, carrier, L. L. Savoy. Box polane, core, C. E. Martin. Bronaing machine, H. Lamberger. Brough holder, L. J. Powers. Brush, H. Alexander. Brush, H. Alexander. Brush holder, W. A. Turbayne. Brush holder, W. A. Turbayne. Bucket, dumping, J. H. Lance. Buckle, H. D. Sargent. Buckle, F. Loeb. Building construction, S. Toye. Building, freproof, M. J. Dawkins. Bundle tie, J. E. Wright. Burial case or vault, McCormick & Kridler. Burial case or vault, McCormick & Kridler. Burial vault, Weltner & Allehaugh. Butter cutter, J. G. & B. B. Carmichael. Cable tension holder, E. J. Hoode. Cage lock, J. W. Unger. Calendar, perpetual, J. F. Stimson. Calk, detachable, W. J. Koontz. Camera finder, W. E. Shanley. Camera tripod, W. C. Evvans. Can cover, milk, T. Bray. Can cover, milk, T. Bray. Can top, H. L. Freeborn. Canning furnace, C. C. May. Capping machine, Mueller & Gwinn. Car, dump, F. Seaberg. Car, hand propelled, C. D. Orcutt. Car passenger registering apparatus, J. J. McDermott Car passenger compling, P. & Sengeal. | 916,198 915,725 916,249 915,990 916,598 915,990 916,334 916,333 916,065 916,333 916,065 916,333 916,065 916,313 915,798 916,313 915,798 916,313 915,798 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,845 916,313 915,845 916,313 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 |
| Box coupling, junction, E. S. Morrell. Box covering machine, E. W. Labombarde Box tock, carrier, L. L. Savoy. Box polane, core, C. E. Martin. Bronaing machine, H. Lamberger. Brough holder, L. J. Powers. Brush, H. Alexander. Brush, H. Alexander. Brush holder, W. A. Turbayne. Brush holder, W. A. Turbayne. Bucket, dumping, J. H. Lance. Buckle, H. D. Sargent. Buckle, F. Loeb. Building construction, S. Toye. Building, freproof, M. J. Dawkins. Bundle tie, J. E. Wright. Burial case or vault, McCormick & Kridler. Burial case or vault, McCormick & Kridler. Burial vault, Weltner & Allehaugh. Butter cutter, J. G. & B. B. Carmichael. Cable tension holder, E. J. Hoode. Cage lock, J. W. Unger. Calendar, perpetual, J. F. Stimson. Calk, detachable, W. J. Koontz. Camera finder, W. E. Shanley. Camera tripod, W. C. Evvans. Can cover, milk, T. Bray. Can cover, milk, T. Bray. Can top, H. L. Freeborn. Canning furnace, C. C. May. Capping machine, Mueller & Gwinn. Car, dump, F. Seaberg. Car, hand propelled, C. D. Orcutt. Car passenger registering apparatus, J. J. McDermott Car passenger compling, P. & Sengeal. | 916,198 915,725 916,249 915,990 916,991 916,991 916,344 916,344 916,343 916,343 916,343 916,365 916,365 916,365 916,365 916,182 916,182 916,182 916,182 916,182 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,383 916,286 916,383 916,286 916,383 916,286 916,383 916,286 916,383 916,383 916,383 916,384 916,385 916,385 916,385 916,386 |
| Box coupling, junction, E. S. Morrell. Box covering machine, E. W. Labombarde Box tock, carrier, L. L. Savoy. Box polane, core, C. E. Martin. Bronaing machine, H. Lamberger. Brough holder, L. J. Powers. Brush, H. Alexander. Brush, H. Alexander. Brush holder, W. A. Turbayne. Brush holder, W. A. Turbayne. Bucket, dumping, J. H. Lance. Buckle, H. D. Sargent. Buckle, F. Loeb. Building construction, S. Toye. Building, freproof, M. J. Dawkins. Bundle tie, J. E. Wright. Burial case or vault, McCormick & Kridler. Burial case or vault, McCormick & Kridler. Burial vault, Weltner & Allehaugh. Butter cutter, J. G. & B. B. Carmichael. Cable tension holder, E. J. Hoode. Cage lock, J. W. Unger. Calendar, perpetual, J. F. Stimson. Calk, detachable, W. J. Koontz. Camera finder, W. E. Shanley. Camera tripod, W. C. Evvans. Can cover, milk, T. Bray. Can cover, milk, T. Bray. Can top, H. L. Freeborn. Canning furnace, C. C. May. Capping machine, Mueller & Gwinn. Car, dump, F. Seaberg. Car, hand propelled, C. D. Orcutt. Car passenger registering apparatus, J. J. McDermott Car passenger compling, P. & Sengeal. | 916,198 915,725 916,249 915,990 916,598 915,990 916,334 916,333 916,065 916,333 916,065 916,333 916,065 916,313 915,798 916,313 915,798 916,313 915,798 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,908 916,313 915,845 916,313 915,845 916,313 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 915,845 |
| Box coupling, junction, E. S. Morrell. Box covering machine, E. W. Labombarde. Box tock, carrier, L. L. Savoy. Box plane, core, C. E. Martin. Bronzing machine, H. Lamberger. Broush holder, L. J. Powers. Brush, K. Watanabe. Brush, H. Alexander. Brush holder, W. A. Turbayne. Bucket, dumping, J. H. Lance. Bucket, dumping, J. H. Lance. Bucket, H. D. Sargent. Buckle, F. Loeb. Building construction, S. Toye. Building fireproof, M. J. Dawkins. Build ite, J. E. Wright. Burlal case or vault, McCormick & Krisler. Buoy for saving life and for communicating between a ship and other objects or the shore, T. Bredsdorff. Burlal vault, Weltner & Allehaugh. Butter cutter, J. G. & B. B. Carmichael. Cabinet, E. Keltz. Cable tension holder, E. J. Hoode. Cage lock, J. W. Unger. Calendar, perpetual, J. F. Stimson. Calk, detachable, W. J. Koontz. Camera finder, W. E. Shanley. Camera shutter operating device, chrono- metric, Martin & Petri. Camera finder, W. E. Shanley. Can cover, milk, R. Bray. Can cover, milk, R. Bray. Can cover, milk, T. Bray. Can cover, milk, T. Bray. Can coupling, D. Alford. Car, domp, F. Seaberg. Car, hand propelled, C. D. Orcutt. Car, hand propelled, C. D. Orcutt. Car, hand propelled, C. D. Orcutt. | 916,198 915,725 916,249 915,990 916,991 916,991 916,344 916,344 916,343 916,343 916,343 916,365 916,365 916,365 916,365 916,182 916,182 916,182 916,182 916,182 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,286 916,383 916,286 916,383 916,286 916,383 916,286 916,383 916,286 916,383 916,383 916,383 916,384 916,385 916,385 916,385 916,386 |

| escent | Casting safe knobs, means used for, W. T. Bausmith | 915,820 |
|--|--|-------------------------------|
| The | Bausmith | 015,020 |
| , and be at | Castings of aluminium and aluminium al- | 915,727 |
| l find | Cement, T. Jones | 915,728 916,165 |
| Prof. | lating float for, C. A. Edlund | 916,398 |
| ubject, which | Chain hoist, friction, R. E. Cross | 916,111 916,005 |
| each, | Chair with adjustable seat, J. A. Wilkinson. Channeling machine, W. Prellwitz | 916,080 916,013 |
| | Chimney cap and ventilator, R. T. Merrill. Churn, J. B. Mellinger | 915,871 916,349 |
| | Castings of aluminium and aluminium alloys, making, E. Blough | 915,726 |
| | Cigars, device for incising the ends of, C. G. Taylor Circles, instrument for describing arcs of, A. W. Allen Clasp. See Garment supporter clasp. Clasp. Ondersers for retorts machine for | 915,807 |
| | A. W. Allen Clasp. See Garment supporter clasp. | 915,926 |
| · : | Can's condensers for records, machine for | 915,848 |
| \$ | Clock, V. E. Duncanson | 916,123 |
| | Olas | 915,762 |
| 1 | olas Clothes drainer, A. P. Shepherd. Clothes drier, J. Surprise. Clothes steamer, W. B. Grover. Clover seed buncher trip device, O. L. Keiser | 916,053 915 763 |
| • 1 | Clover seed buncher trip device, O. L. Keiser | 915,773 |
| | Clutch, Potter & Johnston. Clutch, E. C. Smith. Clutch, friction, A. N. Woods. Coal leveling machine, Rouse & Neemes. Cock, gage, A. H. Jettinger. Cock, gas, A. G. Sherman. Coffee or tea container W. Kingsbury | 916,377 |
| 8 | Coal leveling machine, Rouse & Neemes | 916,200 |
| _ | Cock, gas, A. G. Sherman | 916,163 |
| C. | Coffee or tea container, W. Kingsbury Coin holder, W. H. Garland | 916,327 |
| an ica- nts | Coin holder, W. H. Garland | 916,360 |
| ive | Collar ironing, dampening, folding, and shap- | 010,241 |
| | Column clamp, J. E. Langford | 916,178 916,169 915,775 |
| • i | Collar ironing, dampening, folding, and shap- ing machine, S. J. Miller, et al Column clamp, J. E. Langford Comb, back, W. C. Krueger Comb cleaning attachment for strippers or harvesting machines, A. J. Brownscombe Combination lock, O. M. Larkin Composition board and producing same, H. L. Hollister. | 919,779 |
| cir. | Combination lock, O. M. Larkin | 915,932 916,33 4 |
| ers. | Composition of matter and tempering same, | 915,860 |
| ĮľK 📑 | M. S. Woelfel | 916,244 |
| | tary fluid, A. Huguenin | 916,156 |
| אומ | Concrete building blocks, gage for the spac- | 916,260 |
| פעונ | oncrete floor, F. W. Skinner | 915,982 915,801 |
| 1e | Concrete piers, etc., corner plate for, J. C. | 916,378 |
| | Concrete walls, manufacture of, C. C. Mc- Carty Concrete walls, mold for use in erecting, C. | 915,995 |
| | Concrete walls, mold for use in erecting, C. H. Witthoefft | |
| | Connector, terminal, C. Cuno | 916,084 916,390 916,319 |
| | Coop, brood, D. M. Primm Core, J. Wittliff | 916,014 915,817 |
| ATE | Corn slicing machine, L. H. Kellam | 915,934 916,168 |
| atents.] | Counter controlling mechanism, W. H. Shep- | 915,816 |
| | pard Coupling, R. Whitaker Crate, collapsible, L. E. Pound Cream separator, Balley & Ganiard | 916,042 916,382 |
| 916, 27 0 916,252 | Cream separator, Bailey & Ganiard | 916,012 916,254 |
| 915,863 916,158 915,814 | Creosote, obtaining strong aqueous solutions of, D. Lodigiani Crop treating machines, shock handling at- tachment for, J. B. Schuman. | 915,977 |
| 916,087 | tachment for, J. B. Schuman | 916,204 916,184 |
| 916,202 | Curtain fixture, A. Hansen Dental plugger, W. G. Church | 916,307 916,387 |
| 916,146 915,724 | Curtin fixture, A. C. Newcomer. Curtain fixture, A. Hansen. Dental plugger, W. G. Church. Desk, school, J. M. Taylor. Differential mechanism, B. W. Brockett. Disinfector, F. J. Gaus. Display box, M. W. Just. Display rack, T. A. Thompson. Distributing receptacle, W. R. Comings. Ditching machine, A. I. Hovland. Door, A. J. Ellis. | 915,903 915,827 |
| 916,019 | Disinfector, F. J. Gaus | 916,143 915,967 |
| 915,759 915,815 | Distributing receptacle, W. R. Comings | 915,906 915,742 915,963 |
| 916,147 915,760 915,946 916,384 | Door, A. J. Ellis | 916,128 |
| 916,384 915,784 | Door, folding grain, J. E. Chantler Door operating device, mine, J. M. Sausser | 915,819 915,739 916,027 |
| 915,784 916,150 915,854 | Draft equalizer, J. O. Price | 916,194 915.722 |
| 916,105 | Dressing table, C. A. Warren | 915,913 915,787 |
| 915,920 916,118 915,902 | Ditching machine, A. I. Hovland. Door, A. J. Ellis | 915,855 915,858 |
| | Drying structural parts, means for, A. Knapen | 915,969 |
| 916,213 916,316 915,847 915,740 916,248 916,079 | Dye and making same, azo, C. Jagerspacher. Dye and making same, gray vat, J. Hoff- | 916,161 |
| 915,740 | Dye and making same, red violet, Schmidt | 916,154 916,029 |
| 916,079 | Dye and making same, red violet, Schmidt & Bryk Dye and making same, vat, Schmidt & Bryk Dye, azo, Jordan & Neelmeler | 916,030 916,323 |
| 916,011 915,785 | Dyeing apparatus, yarn, C. Corron Egg desiccating apparatus, A. Fullerton, | 915,939 |
| 915,964 915,868 916,145 915,791 | 916,138, | 916,139 |
| 916,145 915,791 | Luckow Electric brazing apparatus, W. M. Fulton. Electric closet appliance, M. D. Murray. Electric head cap, G. M. Branaman. Electric light cord support, Narum & Jacobson | 915.980 916,140 |
| 916.284 | Electric closet appliance, M. D. Murray Electric head cap, G. M. Branaman | 916,140 916,355 915,824 |
| 916,211 916,369 915,790 915,789 | Electric light cord support, Narum & Jacobson | 915,997 |
| | son Electric switch or signal controlling apparatus, N. T. Shaw Electrical control system, P. H. Thomas | 916,039 916,223 |
| 916,170 916,036 | Electrical control system, P. H. Thomas Electrical distribution system, A. S. Hub- | |
| 916,066 915.812 | bard distribution system, F. J. White. Electrical heater, J. A. Mears, Jr. Electrical heater, J. A. Mears, Jr. Electrically-driven stages, lifts, and the like, device for controlling, A. Bohmer Electrodeposits which can be removed from their base, H. Schmidt. Elevatorytic process, H. L. Hollis Elevating device, E. Burk. Elevator guide rail oller, E. I. Pearson. Elevator guide rail oller, E. I. Pearson. Embalming and burial casket, C. L. Barnes. Emperancy coupling, R. A. Terheun Engine carbureter, explosive, D. J. Cart- wright. | 915,768 915.915 916,348 |
| 915,812 916,350 916,198 | Electrically-driven stages, lifts, and the like, | 916,259 |
| | Electrodeposits which can be removed from their base, H. Schmidt | 916,033 |
| 915,725 916,249 915,990 | Elevating device, E. Burk | 916,155 916.267 |
| 916.078 | Elevator guide rail oiler, E. I. Pearson Elevator leg drive, S. F. Evans | 915.794 915,947 915,928 |
| 915,971 915,799 916,344 | Embalming and burial casket, C. L. Barnes. Emergency coupling, R. A. Terheun | 915,928 915,904 |
| 916,330 915,886 | Engine carbureter, explosive, D. J. Cart- wright | 916,103 |
| 916,071 916,383 | wright Engine spark timer, internal combustion, Schaaka & Cowie. Engine starting device, internal combustion, | 915,891 |
| 916,065 916,331 915,798 | Engine starting device, internal combustion, A. C. Wells Engine starting mechanism, internal com- | 916,073 |
| 916.173 | bustion, E. C. Gentzler | 916,296 915,872 |
| 915,908 916,276 915,922 | Envelop, S. B. Swift | 915,806 916,054 916,232 |
| 916,182 | Envelop, S. B. Switt Evaporator, T. Suzuki Excavator, T. H. Walker. Excavator frame structure, traveling, L. | 916,232 |
| 915,730 | Mayer | 916,347 915,738 |
| 918 N74 | | |
| 915,935 916,326 916,317 916,380 | Fence construction, S. R. Johnson Fence, wire, C. R. Peters | 916,228 916,322 916,192 |
| 919.001 | Filter, water, R. M. Baxter. | 916,206 915,821 916,280 |
| 915,970 916,205 | rire alarm, telegraph, and telephone system, | 916,280 916,142 |
| 916,346 916 280 | Fire escape, A. Alstadter. Fire system high-pressure counection, W. T. | 916,100 916,247 |
| 916,346 916,286 915,825 915,931 915,845 | Fire system high-pressure connection, W. T. | 916,268 |
| 915,845 915,984 | Fluid pressure cut-off, R. Davis | 916,114 915.822 |
| 915 , 992 916,246 | Folding box, M. Dettka | 916,278 916,062 |
| 916,045 915,800 | Folding seat and luggage box, adjustable, J. | 916,379 |
| 919,880 | Fork return mechanism, H. Richardson | 915,888 915,700 |
| 916,359 915,894 | Fruit picker, L. H. Swan | 916,055 |
| 916,256 916,401 | I Furnace anomatic discharging apparatus S | |
| 916.049 | E. Hitt | 916,314 916,112 |
| 916,088 | E. Hitt Furnace traveling grate, J. F. Cunneen Fuse, inclosed, P. S. Keefer Gambrel stick, G. H. Polst Game apperatus, D. H. Talbert Garnent bolder, B. J. Buckingham | 916,167 916,010 |
| 916,214 | Game apparatus, D. H. Talbert | 916,056 915,737 |
| A10'80% | | |