#### RECENTLY PATENTED INVENTIONS. Of General Interest

NON-REFILLABLE BOTTLE.—A. A. JOHNson, New York, N. Y. The improvement pertains to non-refillable bottles, and the object is to produce a bottle of very simple construction which can be constructed without the employment of metal parts or complicated valves, but which will operate effectively to prevent the refilling of the bottle.

TILE .- J. A. McKee, Jeffersonville, Ind. This invention provides a form of joint or fastening means for the abutting ends of drain tile sections. Two semi-circular sections of concrete or the like are provided each with a metallic reinforce and the ends of the reinforcing members extend beyond the concrete sections and are provided with clamping bolts or other suitable fastening means for drawing the semi-circular sections.

#### Hardware.

ATTACHMENT FOR THE JAWS OF VISES. -D. E. SHANKLAND and O. F. BROWN, Whiteriver, Colo. The false grip jaws will incase the fixed jaws of a metal vise, be detachable therefrom and hold the bodies of bolts, rods of metal either round or angular, and also grip and hold the toe calks of horse shoes or like objects without injury thereto, and aid to give correct shape to the gripped angular

DOOR-STOP .-- R. R. SNOWDEN, Houston, The door-stop will operate efficiently to hold the door against closing, and is constructed in such a way as to facilitate the adjustment of the device to the edge of the door. In case the door is moved beyond the usual position on the stop, the stop will then operate as a resilient buffer to limit the further movement of the door.

#### Heating and Lighting.

OIL-BURNER.—J. W. PIPPIN, Brownwood, Texas. In operation, the tanks being supplied with oil and water respectively, oil is admitted to the pan and ignited. The heat will soon generate steam which will pass into the steam dome, whence the dry steam passes to the atomizer, spraying the oil from the heater onto the spreader. The excess steam passes through the heater, heating the oil therein, in its passage, and discharges through the discharge pipe.

#### Household Utilities.

WATER-CLOSET CABINET FOR INFANTS. -G. J⊕HNSON, Kaleva, Mich. The invention relates to an infant's cabinet or closet and the object is to produce a construction which will enable the infant to support his body in an easy position while he is seated. A tray provides a rest or guard for the infant to lean forward upon, and on which toys may be placed.

FIREPLACE-GUARD.-J. A. AUTRY, Pinegrove, Miss. In this case the invention is a skeleton guard applied in front of fireplaces and open grates to prevent children falling into the fire. A wooden bar serves as a protector for an adjacent bar, and does not become heated sufficiently to become ignited and therefore not heated enough to burn a child as much as the metal guard bars.

KITCHEN SINK COVER .- ADAM GIFFEN Demarest, 216 West 22nd Street, New York. The device is in the form of a tray which may be placed on the kitchen sink to support dishpans and the like. Two large openings are formed in the tray directly under the faucets, so that when the water is turned on, it will pass through without spattering. In the illustrated notice of this sink cover published in the SCIENTIFIC AMERICAN, March 27th, 1909, Mr. Demarest's address was wrongly given as 216 West 26th Street.

#### Prime Movers and Their Accessories,

ROTARY ENGINE.-J. J. TANNER, Clover, Utah. The design of the inventor is to provide a rotary engine which may be easily reversed so as to run in either direction and which engine also embodies such features of construction as to allow it to be used as a brake when employed on a locomotive and going down hill.

#### Railways and Their Accessories.

DOOR FOR GRAIN-CARS.—LILLIE DIMICK, South Whitley, Ind. Broadly stated, this invention consists of a series of plates which are pivoted together so as to be movable with each other, and arranged in vertical position, and connected with transverse springs in such manner that their lower edges are held in close contact with the floor of the car when depressed by the load therein.

### Pertaining to Vehicles.

ELECTRICALLY - PROPELLED ROAD-VE-HICLE .- H. DUCASSE, 17 Rue Jean Goujon, Paris, France. The motor in this case has a fixed and rigid support upon the rear axle of the vehicle which support may also serve as the fixed point of attachment for the brake strap. The motor is absolutely independent of the frame, and thus preventing the vibrations of the motor in working and those due to inequalities of the ground being transmitted

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AND EACH BEARING THAT DATE

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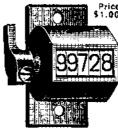
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Scientific American Supplement 1538 gives the proportion of gravel and sand to be used in

Scientific American Supplements 1567, 1568, 1569, 1570, and 1571 contain an elaborate discussion by Lieut. Henry J. Jones of the various systems of reinforcing concrete, concrete construction, and their applications. These articles constitute a splendid text book on the subject of reinforced concrete. Nothing better has been published.

Scientific American Supplement 997 contains an article by Spencer Newberry in which practical notes on the proper preparation of concrete are given.

Scientific American Supplements 1568 and 1569 present a helpful account of the making of concrete blocks by Spencer Newberry.

Scientific American Supplement 1534 gives a critical review of the engineering value of reinforced concrete.

Scientific American Supplements 1547 and 1548 give a resume in which the various systems of reinforced concrete construction are discussed and illustrated.

Scientific American Supplement 1564 contains an article by Lewis A. Hicks, in which the merits and defects of reinforced concrete are analyzed.

Scientific American Supplement 1551 contains the principles of reinforced concrete with some practical illustrations by Walter Loring Webb.

Scientific American Supplement 1573 contains an article by Louis H. Gibson on the prin-ciples of success in concrete block manufac-ture, illustrated.

Scientific American Supplement 1574 discusses steel for reinforced concrete.

Steel for reinforced concrete.

Scientific American Supplements 1575, 1576, and
1577 contain a paper by Philip L. Wormley,
Jr., on cement mortar and concrete, their
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paper exhaustively discusses the making of
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l	H. K. Sandell  Kneading board, W. B. McKee  Knife, E. S. Timmons  Knifting machine, straight bar, Salzer &	916,788 916,763 916,630
	Walther Ladder, E. T. Robinson Ladder attachment, C. E. Davidson Lamp electrode, arc, F. Kalkner	916,492 916,602 916,535 916,877
	Lamp heating attachment, J. C. Drew Lamp, kerosene incandescent, B. F. Roehrig Lamp, plural arc, R. E. Leve Lamp, pocket electric incandescent, F. Blau Lamp pressure burner, petroleum incandes-	916,424 916,889 916,462 916,833
l	Lamp, signal, P. A. Kingston	916,717 916,829
l	& Weber Lamp socket, plural, R. B. Benjamin Lamp socket, plural, R. B. Benjamin, reissue	916,812 916,909 12,931
l	Lamp socket, incandescent electric, Weber & Weber Lamp socket, plural, R. B. Benjamin Lamp socket, plural, R. B. Benjamin, reissue Lamps, producing metallic incandescent bodies for electric glow, F. Blau Lantern, tubular, P. H. Conradson Lantern wick adjusting device, railway, P. H. Conradson Lap link, J. M. Scott Last heel rimmer, H. F. Loewer Latch, door, J. Feucht Latch door, J. Feucht Lathe attachment, J. Sell Lathe speed change gearing, Back & Metcalfe	916,659 916,533
ı	Lap link, J. M. Scott Last heel rimmer, H. F. Loewer Latch, door, J. Feucht Lathe attachment, J. Sell	916,534 916,791 916,569 916,545 916,618
l	Lathe speed change gearing, Back & Met- calfe Leather strap finishing machine, J. Z. Ro- berge	916,525 916,600
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	H. Christensen Liquids, vessel for the conveyance or storage of, W. H. Keller Lock, G. H. Pings	916,532 916,450 916,778 916,878
	Lock, T. Knight Loom filling fork grid, W. L. Scott Loom heddle, W. H. Hartley Loom shuttle, A. Buckler Looms, means for facilitating warp change in A. E. Rhoades	916,878 916,617 916,862 916,415
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t	not Metallic blooms or ingots, machinery for piercing, Jackson & Joseph	916,875 916,650
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ı	M. Meincke	916,746 916,693 916.513 916,443
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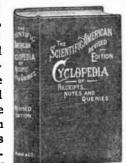
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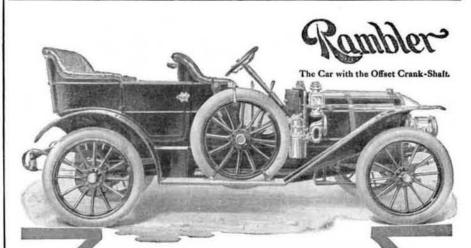
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