RECENTLY PATENTED INVENTIONS. Pertaining to Apparel.

GARMENT-FORM.-ANNA L. TRAVISS, Virginia, Minn. This apparel apparatus comprises a garment form for use in dressmaking establishments, stores, homes, and other places, and is arranged to display a garment to the fullest advantage, to preserve its shape, and to permit of conveniently folding the garment form into comparatively little space when not in use.

Electrical Devices.

ELECTRICAL CUT-OUT .- P. T. MCNALLY, tended for turning on and off any one or more the power house, or install a separate alterna-lits use. tor for operating the arc lamps and incandesnot in use, thus preventing loss of power in idle transformers, or for any other analogous purpose.

Of Interest to Farmers.

FEED-TROUGH .-- G. D. KOEHLER, Macedonia, Iowa. The invention comprises a trough proper which forms the base of the feeder as a whole, and a part which is hinged thereto and consists of a hopper, for receiving the feed and a series of transverse partitions arranged on the sides of the hopper and dividing the feeding space of the trough so as to form a series of what may be called "stalls," double or single and easily and quickly cleaned.

GATE .-- J. M. HIGBE, Manson, Iowa. The object of this invention is to produce a gate which can be formed of wire or similar light material, and to provide a construction which will prevent the gate from sagging without for a simple, durable, economic, and easily plied. necessitating a construction involving the use operated post-hole digger, one wherein the of a heavy frame for the gate. It relates to blade-carrying portion or body is constructed gates such as used in the fencing of farms and gardens.

GATE .- E. J. A. RICE, Harvard, Neb. One of the several objects of this invention is to provide a construction of farm gate, or that SELS.-I. GRUBER, New York, N. Y. It is class of gates adapted to be opened by a person approaching it and closed by a person device capable of operation from within a after having passed through the gate, no matter whether such person is on foot, mounted, or seated in a vehicle.

COMBINED COTTON CHOPPER AND CUL-TIVATOR.-R. H. PURNELL, Rosedale, Miss. The invention is a machine for chopping, or cutting out, cotton rows at regular intervals, BEER. - E. A. APPELL, New York, N. Y. The and also for throwing dirt up to the plants object of the invention is to provide an apwhich remain standing. The runners will al paratus for use in breweries and other estabways rest and travel upon the ground, and if lishments, and designed for cooling beer and the team be large, or tall, the front end of the frame will be held higher. This insures the ner, or for heating fluids by the use of steam chopper striking the row of plants squarely, or like heating medium. at right angles thereto.

Of General Interest.

POWDER-COMPACTING DEVICE FOR DRUGGISTS .-- O. WARE, Muskogee, Ind. Ter. This invention pertains to a device for faciliportions to be put up in papers or capsules when not in use the device is inoperative according to the requirements of the prescription being filled by the druggist, and has for its object to compact the powder into a regular sized body whereby the druggist may more easily estimate the proportional parts and may subdivide the powder into any number of parts of equal size.

BAGASSE-FURNACE .- F. F. WILLEMS, Delanggoe, Soerakarta, Java. The invention relates to improvements in furnaces, and more particularly to furnaces adapted for the burning of bagasse, the fiber refuse of sugar cane discharged from the juice-extracting machinery. The bagasse may be dried before reaching the grate bars, and may thus be utilized more economically as a fuel.

CONCRETE STEEL SUSPENSION-ARCH.practical at the present time, with less concrete and with a smaller rise. By means of the construction the arch may be made with a

of its class now in use.

SYRINGE-NOZZLE .- H. F. ONG, Portland, Ore. The aim of the inventor is to provide a nozzle for fountain syringes or douches, in of advantages. which a tube having a catheter pointed ex-tremity is provided with an attached bulb, N. Y. The object in this instance is to pro-Mandan, N. D. This device is especially in-tube being adapted to enter the cavity of arising from the burning fuel in the fire-box organs, permitting the inflowing liquid to leave to the fullest advantage, to heat a room by of a system of arc lamps, operated by a single the nozzle at an angle with sufficient current radiation of heat from the stove or heater, and alternating current dynamo, where it is not and force to be highly serviceable in agitating to heat water, air, or both and conduct it to profitable to make a separate line circuit from any and all fluid in the cavity at any time in radiators or registers for heating other rooms

MEANS FOR RECOVERING SUBMARINE cent lamps. It shuts off transformers when BOATS .- E. OSWALD, United States Navy. The invention is an improved means for the recovery of lost submarine boats, designed to place the location of the submarine with cer-Francisco, Cal. This inventor's improvement tainty in both day and night, permitting com-is a contractible and expansible device adapted scheduled in manufactured issued or published munication with those imprisoned therein and for cleaning cuspidors and other receptacles or inaterial, manufactured, issued, or published the use of divers. It can be installed on boats already built or now building at a small

DEVICE FOR PROTECTING SAFE-VAULTS .- E. V. LORIG and U. G. GRAHAM, South Omaha, Neb. An object of the invention among others is not only to provide a means to act with certainty in giving alarms, but each adapted to accommodate the head of a also at the same time to extinguish fire which invention are to provide means whereby an single animal. The trough may be constructed, can be in or near its location at the time the adhesive can be applied to cans or other artialarm is sounded, and at the same time by the cles, to provide for thereafter feeding and ap burg, Pa. The object of the invention is to generation and distribution of noxious gases, drive away burglars or other unauthorized persons.

> POST-HOLE DIGGER .- R. T. JENNEY, De Pere, Wis. There is provision in this invention in but two parts, and wherein further the entire structure may be made exceedingly light without sacrificing strength.

> SUSTAINING DEVICE FOR AERIAL VESsought by this inventor to provide a penumatic basket or car of a balloon to direct the balloon in one or the other direction or to prevent a too rapid descent of the balloon in the event of a leakage of gas, or should the balloon be

APPARATUS FOR COOLING OR HEATING

Hardware.

DOOR-FASTENER .- M. D. MERRING, East Stroudsburg, Pa. The object of the inventor is to provide means effective in operation and durable in use, adapted to securely fasten a door so as to prevent it from being opened when not in use by folding the lower section against the upper, and as a spring passes over the hinge joint it is stretched and again contracts, thereby pulling the brace sections firmly together.

WRENCH .-- F. C. MAGENHEIMER, Evansville, Ind. In the operation of this monkey-wrench the shaft may be partially rotated by its handle which projects from it a point midway between the upper and lower loop frames, and as it is turned it will operate upon blocks in such manner as to draw the serrations, and to free said serrations from engage ment as may be desired.

NUT-LOCK .-- C. C. HALGREN, New York, improvements in nut locks relating to that CONCRETE STEED SUBFIDIATION and the type of nut lock embodying in its construction to the object of the inventor is to provide means the bolt and forced to its seat, its threads adapted to enable concrete arches to be con-will automatically be forced into tight embrace will automatically be forced into the search the type of nut lock embodying in its construction with the threads of the bolt and thus securely lock them together.

BAG-LOCK.-L. B. PRAHAR, New York, KARGER, 26 Frankfurter Allee, Berlin, Ger-N. Y. A purpose of the invention is to furmany. In accordance with the present inven-nish a friction lock or latch for purse frames, tion, the two admission devices for gas and Col. being particularly adapted to the frames of air respectively which are dependent upon the and the object is to produce a metal tie of what is known as hand or wrist bags, which operation of the suction and forcing appliances, simple construction having a special form lock or latch is intended to be more simple, are arranged behind the admission aperture durable, and economic to manufacture than any common to them both, in such a manner that during the admission to the suction chamber displacement of the tie in the roadbed. the gas and air mutually penetrate each other. Novel arrangement of valves secures a number

but is not in communication therewith, the vide a stove or heater arranged to utilize heat and to assist in heating the room in which the heater is located.

Household Utilities.

CUSPIDOR-CLEANER .--- O. KEROUSE, San obtaining a hawser attached to the boat without tubular bodies, especially those whose mouths or entrant portions are contracted or made of less diameter than the body portion. bing and cleaning is done in a rapid and effective manner.

Machines and Mechanical Devices.

LABELING-MACHINE .- F. X. MALOCSAY, New York, N. Y. The principal objects of the

Woodburn, Iowa. The invention has reference annular metal plates being fitted between the to machines for making bricks, and is espe- hub and the ring and lapped and bolted tocially adapted to be operated by hand. The gether so as to brace the wheel in all direcobject of the invention is to simplify and im- tions. prove the machine, and the finished bricks re-

moved by a single operation of one lever.

able in use, adapted to be moved about in a yard and to elevate and deposit lumber at any of the tire. desired height to form a stack.

The invention is an improvement in collars as used on the shafting of machinery, especially shafting likely to come in contact with the clothing of workmen and others. An object is the production of a means to be placed over the ordinary collar as now in use for covering the set-screw head which is the source of much danger and many accidents.

PLUNGER FOR BOTTLE-MACHINES .- R. JOHNS, Fairmount, W. Va. 'The purpose of the invention is to provide an improved construction of plunger whereby to preserve a struction of plunger whereby to preserve a infinite to contract outputs of the successful operation of such plungers as are commonly used as a part of References to former articles or answers should give machines and presses employed in the manufac-ture of bottles, jars, and other tubular glass ware. POWER-SHOVEL. — R. BELDEN, Spanish Ranch Cal Mr Relden's invention has refer.

Ranch, Cal. Mr. Belden's invention has reference to improvements in power shovels for digging railroad beds, ores, ditches, and the like,

ging railroad beds, ores, ditches, and the like, the object being to provide a power-shovel of comparatively simple construction by means of which the work may be rapidly carried on. RATCHET-POWER.—J. H. HARDEN, Annis-ton, Ala. The invention refers to means, manual or mechanical, whereby to convert ap-plied reciprocal motion into rotary motion, and plied reciprocal motion into rotary motion, and has for its object peculiar, novel, and improved N. Y. The direction of this invention is to means for the purpose stated, involving rotatable shafts operatively connected by suitable gearing, and a novel form of ratchet power devices.

Prime Movers and Their Accessories.

Railways and Their Accessories.

RAILWAY-TIE.-H. E. MATTHEWS, Salida, The invention pertains to railway ties, which facilitates the fastening of the rails thereto, and which tends to prevent a lateral

Pertaining to Recreation.

SNAPPING DEVICE FOR MARBLES .-- W. L. HOFFMAN, Jersey City, N. J. The device is grasped in the hand, and by pressure of the latter the marble may be projected as when snapped from the fingers. The inventor's object is to produce a device adapted to be used in playing marbles, and enables the marbles to be snapped with greater force and accuracy than in the ordinary way.

TRANSFORMABLE TOY .- MARY A. GLIEN. Elizabeth, N. J. The toy is primarily in sheet form and adapted to be cut out, folded, glued, and the parts connected to produce a trans-formable object. Objects may be produced upon The rub- colors or otherwise, with single, double, comcreatures, or the like, which, after being made up, when turned inside out or about, will show different figures of persons, animals, creatures, or objects.

Pertaining to Vehicles.

VEHICLE-WHEEL J. B. HUNTER, Pittsplying labels to the cans successively onto the provide a construction of wheel in which the portion supplied with the adhesive, and to rim is cushioned with respect to the hub, provide means for manipulating the several special features being an octagonal metal hub, essential parts of the machine and feeding the an outer rim, an inner ring, spokes between cans, both before and after the labels are ap-the rim and ring, and radial spiral springs between the hub and ring allowing free vibra-BRICKMARING-MACHINE -E. L. MARTIN, tions in all directions radial to the hub, four

AUXILIARY FELLY AND TIRE.-C. BUCK-LAND, Habana, Cuba. The invention relates ELEVATOR .- C. A. LINDSTROM, Seattle, to wheels having inflated pneumatic tires. The Wash. This improvement relates to elevators object is to provide means adapted to be designed to be used for stacking lumber, and readily attached to or removed from vehicle has for its object to provide means simple in wheels of ordinary construction, and when ap-construction, effective in operation and durinjury without interfering with the resiliency

esired height to form a stack. NoTE.—Copies of any of these patents will COLLAR.—D. J. KELLY, Aberdeen, Wash. be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.



HINTS TO CORRESPONDENTS.

- his turn. Buyers wishing to purchase any article not adver-tised in our columns will be furnished with addresses of houses manufacturing or carrying

(10567) W. W. R. writes: We have an artesian well here about 1,000 feet deep that is throwing out salt and white sulphur water at the rate of 400 gallons per second. This is correct. I tested it three different times, and made it that or a little over. I am satisfied it will rise in a 6-inch pipe 30 to 50 AUTOMATIC DRAINAGE ATTACHMENT feet, and probably higher. With say a rise of GAGE. - G. W. McLaughlin, Hoquian, FOR LUBRICATORS. -J. C. HUBRARD, George- 30 feet, what horse-power will it make with a the construction the arch may be made with a span of any desired length. ANCHOR FOR AIR-SHIPS.—D. THOMAS, This invention relates to gages of the invention relates to gages of the cutting edges of saws, and it is an object which is an object with the cutting edges of saws, and it is an object which is an object with the function of the inventor to provide a gage which is particularly adapted for use in gaging saws. with curved cutting edges, such as cross-saws happens that the engineer forgets to open the descent lights for stores and dwellings. A. night, with the result that the lubricators a pressure equal to a head of 30 fect would freeze and burst, thereby entailing expense of develop 180 horse-power. The number of new ones. The invention prevents this possi- pounds of water per second, multiplied by bility. Mr. Hubbard has also received a patent the head and divided by 5,500 will give you on an invention designed to provide an auto- the theoretical power. If this flow of water per cent of the above horse-power could be generated by a turbine wheel, which would be sufficient to light your town, with considerable margin to spare. It is very doubtful if your well will continue its present output at the CAN, Marshall, Ill. In the present patent the pressure which you mention for a great length of time. We would advise you, therefore, to get an expert's opinion on this point before making any large investment.

ticularly adapted for use in connection with buoyant vessels to effect a landing at a given point quickly and accurately, and to so construct the anchor that when it has entered the ground claws will be forced out into the ground when the anchor is subjected to upward strain, preventing the anchor from being withdrawn or dislodged until the means are operated for permitting the claws to be drawn out.

HORN-SUPPORT. V. H. RAPKE, New York, N. Y. One object in this case is to provide in the construction of a supporting device parengaged with a molding of the machine casing, and to provide a supporting rod so constructed that the horn may be supported vertically or horizontally, or. in other words, a TURES OF GASES OR OF GAS AND AIR to the fullest advantage and without back press- (10568) C. H. M. says: What is the universal or interchangeable supporting rod. FOR ILLUMINATING PURPOSES.—H. L. ure during the third expansion of the steam. formula for finding the horse-power required

particularly adapted for use in gaging saws and the like.

Heating and Lighting.

SAFETY DEVICE FOR GAS-BURNERS .-A. A. CHURCHILL, Portland, Ore. The improvement pertains to a device designed for the matic drainage attachment for each lubricator, could be constantly relied on, from 75 to 80 prevention of accidents resulting from the acci- which is entirely independent of any separate dental escape of gas due to a failure to light connection with the boiler and comes into acsame when it is turned on, or due to the gas tion by the mere act of disuse of the lubricahaving been blown out after being lighted, tor, or shutting down of the engine. ticularly for phonograph horns, a novel and The object is to provide a device for closing TRIPLE-EXPANSION ENGINE.-W. S. LYsimple clamping device that may be readily an electric circuit and ringing a bell or operating any other indicator when unburned gas object of the invention is the provision of a

escapes from the gas jet. new and improved triple expansion engine, APPARATUS FOR PRODUCING MIXwhich is arranged to utilize the motive agent

(10568) C. H. M. says: What is the