RECENTLY PATENTED INVENTIONS. Pertaining to Apparel,

N. Y. The purpose of the invention is to provide a construction of child's cap and one wherein the parts of the cap are permanently connected and are capable of being laid flat for purposes of washing, starching, and ironing and wherein, further, the parts may be quickly and conveniently drawn together and secured to form the front and back sections of a child's cap, the two sections being needed for the cap's formation.

Of Interest to Farmers.

MILKING-MACHINE .--- L. B. STEVENS, LOgansport, Ind. A person on the stool by moving a lever downward will cause a downward movement of a piston, and as the valves carried thereby will be closed the milk will be drawn from the udder, and then upon an upward movement of the piston the valve opens, permitting the milk to pass to use under side of the piston, and then by a subsequent downward movement the milk underneath the piston will be forced through a pipe and at the same time a fresh supply of milk will be drawn.

JOINTER FOR STUBBLE-PLOWS .- D. H. DICKINSON, Parker, Ore. The purpose of the invention is to provide an adjustable rolling jointer for stubble-plows which is economic in construction, and which will leave a clean furrow, turn all material from the plow-beam, and effectually prevent material clogging on the beam back of the moldboard, and which will also turn all stubble, weeds, and grass cleanly under the furrow.

Of General Interest.

BUILDING-BLOCK .- J. AITKEN, New York, N. Y. The object of the inventor is to provide a during the cooking process, vide a building-block for the construction of DUSTLESS BROOM __ I B Pr walls arranged to insure the formation of light | and air-tight joints and to reduce the weight to a minimum and still render the block exceedingly strong and durable and to provide the block with air-spaces to prevent the penetration of moisture into a room by way of the wall.

SAFETY-ELEVATOR .-- J. HART, New Orleans, La. In the present patent the invention when worn. has reference to elevators or lifts; and the purpose of the improvement is the provision of a safety device which will operate automatically to prevent the cage or car from falling case of any breakage of the suspendingcable.

BURIAL-VAULT .--- A. H. HAVARD, Urbana, Ill. One of the embo iments of the invention consists of a box-like structure built of concrete and having brace-bars imbedded therein, the whole having an inner rabbeted upper edge combined with means for lowering this part of the vault after it is dry and hard into the grave. A metal top fits into the rabbeted edge of the box-like structure and is placed thereon after the casket is placed in position. Thereafter the metal top is covered with green concrete, which knits to the lower portion of the vault and forms a hermetically-sealed case.

SCOOP .- F. C. Howe, El Paso, Texas. The object of this inventor is to produce a scoop provided with means for weighing the contents of the scoop, the general purpose being to do away with the necessity of placing the substance within the scoop in a scale for weighing the same. The improvement refers to scoops such as used in stores and similar places in selling products, such as flour, sugar, etc. Mr. Howe has invented another scoop such as used as above; and the object of the improvement is the provision of a construction, having a handle or bail attached thereto, with means for determining the weight of the contents of the scoop.

DRAFT APPARATUS .-- T. W. HUCKLE, holding element power is applied to the weight. ratus may be increased or diminished.

sockets, the ends being held in the sockets each in connection with machines for shearing sheep Pertaining to Apparel. CHILD'S CAP.—LENA STEINTHAL, New York, by a transverse pin. That fastening is defec- and the like. The object is to provide a The tie is inserted in the road-bed and the CHILD'S CAP.—LENA STEINTHAL, New York, tive, as the pins pull their way out through transmission-gear, which permits the speed of interior filed or packed with dirt, cement, or the handle ends. Mr. Welch produces a fasten the operating parts to be varied within wide the like. ing by means of which the handle may be limits and which allows the mechanism to be quickly attached and secured.

PACKAGE-HANDLING DEVICE. _ W. R. operator. DENNIS, Denver, Col. By moving a sleeve downward on a staff the jaws will spread apart Chicago, Ill. In this case the invention has so that they may be engaged with a box, pack- reference to hand-power propellers, and has age, or the like. Then upon releasing the for its object the provision of means for prosleeve the springs will move the jaws toward peling small boats upon park-lakes and similar tie over all similar ties and rail-fastening each other to engage with a box, package, etc. places without the use of oars, and thereby means. In shifting paper or pasteboard boxes, it is not desirable that the jaws shall clamp closely interfering with each other. against the same while the box is resting on the hangers. To provide for this, the sleeve may be rotated so that the cam mechanism will lock the jåws at a suitable distance apart.

Heating and Lighting.

STOVE .-- J. I. HAMAKER, College Park, Va. By device in an electric circuit the batteries where- on and to readily accommodate the draw-bar means of the present invention the improved of are concealed in the base, so as to produce stove is so constructed that it may be produced a spark at the exposed portion of the wick at a small cost. It practically contains an as the fountain is swung outward to light a oven, a water-heater, a steam-cooker, and a cigar, the current being closed and opened at warming-chamber, all arranged with a view to moment of passage of the fountain to and from the greatest economy of heat and consequently of fuel.

Household Utilities.

STIRRER.-I. W. GREENWALD, Frederick, The invention refers to stirring or agi-Md. tating attachment for cooking-kettles, and has for its object means of this character which may be simple in construction and applicable to all open kettles commonly employed for and the like, in which 'he main portion of the cooking apple-butter or general purposes where the fluid or material should be stirred or agi-

DUSTLESS BROOM .- J. R. PRICE, Fond du prevent the raising of dust when in use. and of brush in such a way as to enable the straws or bristles to be easily reversed or replaced

Machines and Mechanical Devices.

HEATING DEVICE FOR SPINNING-LATHES.—R. THIEL, Lubeck, Germany. The invention refers to improvements in heating devices for spinning-lathes whereby it is rendered possible to maintain the device at a proper and uniform distance from the blank while the latter is being spun-that is to say, during the reduction or increasing of the diameter of the respective part of the blank-so that the metal is at all times heated up to the right temperature and cannot become brittle and cracked.

ROAD-GRADER .- E. FAHRNEY, Deep River, Iowa. A purpose here is to proviide a machine that will plow and grade a road at the same time, in which a series of spades have rotary co-operative action relatively to the plow, cross-cutting the furrow as turned up by the plow, which spades when they reach a certain point at rear of machine under action of trip devices consecutively throw the dirt inward with such a quick motion that they scatter dirt in direction of the middle of the road, thus making it smooth, the spades acting equally well in dry, soft, soddy, or weedy roads.

PILE-FABRIC LOOM .- H. SARAFIAN, YONKers, N. Y. Mr. Sarafian's object is to provide a loom for weaving pile fabrics—such, for in-stance, as are shown and described in the Letters Patent of the United States formerly granted to him and bearing Nos. 752,712 and 782,178. In order to produce the weave, it standish, Mich. The apparatus comprises a is necessary to manipulate three ware, it body to which power is applied, and is ar- of each set in a peculiar manner and relative ranged to roll or climb along a holding ele- to each other, and for this purpose a special ment, this body having adjustably attached device is used. In operation of the loom the thereto means for connecting it with the thread on the bobbin of the shuttle unwinds to weight, so that as the body is moved along the form a weft-thread at the time the shuttle goes through the open shed from one side of

supported directly by the object to be sawed, the engineer from any cause fail to note the appreciated. A. Any lamp will burn under thus dispensing with considerable weight. It; open switch or danger-signal. that by the use of this new process an important industry can be developed in the United may be positioned to cut at an angle upward RAIL-BRACE.-W. M. JENKINS, Guthrie, plied with air. We do not know any other States which has heretofore been exclusively or downward or may be reversed upon its Oklahoma Ter. The brace securely fastens way to produce a light under water. An elec-rails to the cross-ties. The brace has an tric light does not need air, a fact which carried out in foreign countries. Certain raw plates when sawing close to the roots of the and waste products can be employed which have tree. Any suitable means may be used for imanchorage underneath the tie. There are many renders it easier to have light under water by parting motion to the driving-pulley. Any heretofore had to be refined and imported. advantages. Each tie is firmly anchored at electricity, but this is out of the question with SAFETY-RAZOR. - W. SCHMACHTENBERG preferred form of endless saw may be used cach end to the two rails, so that the rail is you. The metal potassium will burn under New York, N. Y. The object here is to provide with the machine. immovable against all strains. There is great water. No means has been devised for utila razor which is simple in construction, com-LOADING-MACHINE .- F. K. HOLMESTED. saving in spikes, and as the ties are not pierced izing the fact for illumination. Its cost is Claremont. W. Va. The machine transfers any at any point their longevity is greatly inposed of but few parts, not liable to easily too great for such a use. get out of order, and arranged to permit min class of loose material from the ground or a creased. Stability of the track also increases (10334) K. T. asks: 1. Is it possible ute adjustment of the blade to bring the cutting platform into a conveyer, its object being to safety of travel and avoids much loss of life to synchronize a dynamo and a motor, the latter produce a device expeditious and efficient in and property. Tension of rail-joints is main-operation. The invention consists, broadly in tained which deadens sound and avoids all edge thereof in proper relation to the guard run by the former, with reliability as to small and to hold the blade positively against rear ward motion to maintain the cutting edge in variations of speed? A. The single-phase moa revolving wheel or platform adapted to re initial looseness. The brace will allow the ter must closely synchronize with the dynamo the adjusted position. ceive the loose material and discharge it upon height of the rail to be increased without danwhich furnishes the current. Direct-current FASTENING FOR HANDLES OF BAGS, a conveyer. The platform is set at a slight ger of the rail turning. motors need not do so. 2. If so, will you give SATCHELS, PURSES, ETC.-H. B. WELCH, incline to the horizontal. A revolving plate RAILWAY-TIE.—E. A. RASMUSSEN, Hot Springs, S. D. In this patent the invention has reference to improvements in metallic ties purpose the minimum speed would be about combines with a side plate and conveyer-belt West Hoboken, N. J. Heretofore handles of disposed across the upper face of said plate. bags, satchels, etc., especially of fastenings which involve the use of a bearing having a VARIABLE-SPEED GEAR .--- C. E. FUNK, and rail-fastenings for railways, the object 600 revolutions a minute and the maximum Enterprise, Ore. The invention pertains to being the provision of a metal tie that will be 2,400. The sensitivity ought to be such that swivel connection for attaching a handle, have

stopped or started by a simple motion of the

HAND-POWER PROPELLER.-N. JOHNSON enable such boats '> move about freely, without

CIGAR CUTTER AND LIGHTER .- F. A. WIDMANN, Philadelphia, Pa. One purpose here is to provide a form of cutter and lighter wherein a tension-controlled fountain for liquid Gebhardt. The object of the present inven-fuel, such as gasoline, is provided with a wick tion is to provide a truck for cars which is for ignition and pivotally mounted upon the exceedingly strong and durable and arranged COMBINED HEATING AND COOKING base for movement to and from the sparking to provide a solid bed for the car-body to rest

contact with the sparking device.

BALL-BEARING.-J. F. SPRINGER. Girard. Pa. The object of the invention is to provide a bearing arranged to insure a true rolling motion of the balls, unaccompanied by sliding between balls and bearings, to bear heavy strains, and to allow convenient adjustment with a view to taking up wear, and more especially designed for use on journal-bearings strain is approximately perpendicular to the axis of the shaft.

LABELING-MACHINE .- A. MARCUS, Shreveport, La. In operation a bottle or package is Lac, Wis. The object of the invention is to placed on a seat. A label is then taken off construct the device in such a way that it will the pile and is passed over an exposed surface the pasting-roller from left to right to a further object is to construct so as to enable apply the paste, and the label thus charged the handle to be adjusted upon the body of the uniformly with paste or glue is by continuation brush and also to construct the body of the of the same movement quickly slipped onto the bottle in about the same plane, thus getting the label on the bottle immediately after pasting it and before it has time to curl up. cation of labels on bottles is uniformly the same by the indication afforded by the marker.

AUTOMATIC WEIGHER .--- A. McLeod and J. H. MCLEOD, Marietta, Kan. The grain is received into a stationary hopper and discharged therefrom into a movable weighinghopper which is so connected with weighing and other mechanism that when filled it tilts automatically and the weight is duly recorded or registered, the hopper being then autoupon it receives another charge of grain and tilts and discharges as before. It is an im-provement upon the weigher for which the inventors formerly received Letters Patent. Secial Written Information on matters of personal rather than general interest cannot be expected without renuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. matically restored to .ts first position, where-

Prime Movers and Their Accessories.

STUFFING-BOX .--- M. BERECKY, New York, N. Y. The object of the invention is to produce a box which will present a metallic pack ing and absorbent or vegetable packing and in which special provision is made for conducting the lubricating fluid to the vegetable packing. It relates to stuffing-boxes such as used for pistons, tail rods, and similar moving parts.

METALLIC PISTON PFLAUM, Pittsburg, Pa. The invention pertains to metallic piston-packings, such as shown $_{
m i}$ because the current from the overhead troland described in Letters Patent of the United leys goes through the motor and the axles to States formerly granted to Mr. Pflaum. The the rail and returns to the power house in object of the present invention is to provide a that way only. packing composed of comparatively few parts and arranged to prevent leakage of steam in the cylinder from one side of the piston to the other and to compensate for all wear of the interior contacting surfaces of the engine-cyl. ter that it is quite impossible to reply. Many inder and the piston-packing, thus requiring no reboring of the cylinder.

Railways and Their Accessories.

SAFETY APPLIANCE FOR AIR-BRAKES. By adjusting said means for connecting the the loom to the other, and when the shuttle sibly also a solution of sulphurous acid might W. H. WINKS, Baltimore, Md. In this case body with the weight the power of the appathe improvement relates to safety appliances be of service. returns the same thread on the shuttle-bobbin PROCESS OF MAKING TERPIN HYDRATE. L. H. REUTER, New York, N. Y. The hydrate produced can be used as a basis for the manu-facture of other turpentine derivatives and thet he will be quickly applied when a will burn under water (outside of an electric supported directly by the object to be sawed, the engineer from any cause fail to note the forms a certain weft-thread.

been attached by inserting the ends thereof in variable-speed gears, and is especially useful comparatively light, yet strong and serviceable, and having novel means for securing the rails.

> COMBINED TIE AND RAIL-FASTENER.-E. P. BERGMAN, Concordia, Kan. The improvement pertains to metallic railway-ties and means for securing the track-rails. The object had in view is to provide a tie and rail-fastening means which shall afford improved securing means for the rails and prolonged use of the

> METALLIC TRUCK FOR RAILROAD-CARS. -F. GEBHARDT, Alliance, Ohio. The invention refers to trucks for cars such as shown and described in the application for Letters Patent of the United States formerly filed by Mr. timbers.

Designs.

DESIGN FOR A FRAME.-G, H. RICE, New York, N. Y. In this ornamental design the inventor produces a form of almost a true circle in the interior of the frame. Exteriorly the frame presents an almost square appearance secured by the four corners being extended and capped with scrolls. Mr. Rice has also de-signed another frame with nearly identical lines and scrolls (the latter six in number), excepting that the frame adopts an oval interior and an oblong outer form.

NOTE.-Copies of any of these patents will 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.

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 Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.
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 Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying the same.

- Minerals sent for examination should be distinctly marked or labeled.

(10331) A. C. L. asks: Is it possible to convey a current of electricity from a battery, stored in a locomotive, to the rail, through the axle and wheel? Does not the •il bearing interfere with a perfect connec-tion? A. We presume it is possible to convey a current of electricity from the locomotive to PACKING. — N. the rail through the axles and wheels, though The invention per- we never tried the experiment. We think so,

> (10332) W. J. C. wishes to know how to remove indelible ink marking from clothing. A. Indelible inks are of such variable characof these inks have nitrate of silver as a basis; in this case, a solution of hypesulphite of soda might help. Some other inks might possibly be bleached out with javelle water and weak muriatic acid; this can be used only on white goods, as most dyes would be destroyed. Pos-