RECENTLY PATENTED INVENTIONS. **Electrical Devices.**

SANITARY ATTACHMENT FOR TELE-PHONE-TRANSMITTERS. J. W. DOLSON, New York, N. Y. This attachment is arranged to enable the user of a telephone to speak against a clean piece of webbing extending across the mouth of the receiver, to insure the proper transmission of the sound to the diaphragm of the transmitter, and at the same time prevent the speaker from inhaling any is an improved composition for treating paper, unhealthy exhalations of a previous user of the especially in the form of card-board, rendering telephone

lates to means for locking an automobile or wear and rough usage like wood. BRANDOW, Pittsfield, Mass. The invention revehicle of similar character in an inoperative condition, so as to prevent the vehicle from BUTTENSHAW, Beechwood, Chorlton-cum-Hardy, being removed or operated by any one not Manchester, England. The object of this inauthorized to do so. It remains in such posi-ventor is to produce articles in an alloy invention relates to the generation of power tion until the switch is released by one suitable for use in the construction of marine, by the combustion of a gas or vapor within a familiar with the combination of the lock.

HUSTON, Willow Hill, Ill. The invention provides an efficient lockout for preventing eavesdropping and interruption in conversation. Conceals the identity of such stations as may be busy, thereby preventing operators at other stations from ascertaining what persons are talking. Brings all business of the line under direct surveillance of operator at line, and so constructed and arranged as to central station, thereby facilitating the ascer- enable clothes to be placed on the line by a having a high, an intermediate, and a low tainment of tolls. Provides a selective call person within a room, and thereby avoid the pressure chamber, each of which is provided which disturbs no station except those desired; and, provides certain details toward simplicity, positiveness of action, and general efficiency of party line.

Of Interest to Farmers.

is important to secure equal portions dered interchangeable. it throughout the vertical area being sampled, and also important to secure the sample with- J. DARDIS, New York, N. Y. The invention is out disturbing the cream or agitating the same an improved means for kindling fires, consistso as to secure more than the proper proportion, and in doing this the inventor finds it important to arrange the tube so that it will cut down through the cream and thence down through the milk to the bottom thereof, and leave the lower end of the tube practically unobstructed until the bottom of the can is reached. The invention secures this result.

Of General Interest.

ATTACHMENT FOR SEWING MACHINES. ANDREW G. ROSENTHAL, 872 Clinton Street, Milwaukee, Wis. The device comprises a pin cushion and thimble holder, formed on a plate which may be attached to a machine, by fitting it over the spool holder. A piece of emery paper on the plate provides means for sharpening the points of needles. In the complete illustrated description of this device, which appeared on page 396 of the SCIENTIFIC AMERICAN, Mr. Rosenthal's initials were incorrectly stated. The correct address is given above.

SUPPORTING STRUCTURE FOR BUILD-ING CULVERTS AND THE LIKE .- E. F. PARCAUT, Sutherland, Iowa. The object of this improvement is to provide a supporting cement, concrete or other material, the structure being arranged to permit of quickly and crete or cement has set and hardened.

TELLURIAN.-C. B. MARTIN, Portland, Ore. strate the various relations of the globe rela. These typewriters are known commercially as tive to the sun and moon, with a view to book typewriters. explain the different times, seasons, moon's phases, tides, etc.

such device adapted to be drawn from the rotary motion.

in tion is an improved combined machine for Larimore, this instance the invention refers to certain measuring, winding, and weighing rope, wire cable, and like material, to be used by storewbole or in part. improvements in devices for holding pencils keepers in the sale of such goods, thereby lessand protecting the points thereof when not in ening the labor entailed when these operations use, and provided with a fastener by which are performed in the usual manner. the same may be instantly secured to the inside or outside of a pocket or to any other Prime Movers and Their Accessories, portion of the clothing. MANIFOLDING-PAD.-S. W. GASS, Evart, ROTARY ENGINE .--- T. S. BARWIS, Vancouver, British Columbia, Canada. The object or washer being arranged between the body Mich. This pad is to be used by store clerks in this invention is to provide for the quick part of the axle and the spindle around the sound exactly like the sparks of an induction in the recording of sales, where it is necesreversal of the engine or turbine when desired. sary to make duplicate slips of the name and avoid any injurious movement out of the perprice of each article sold, or other memoranda. The improvement consists of a cylindrical caspendicular with respect to the said stud. For this purpose the inventor has constructed ing in which is journaled a revoluble drum. a book box adapted to contain a ribbon folded carrying blades subject to pressure of the AXLE-NUT .--- 'I'. MILLIGAN, Fortuna, Cal. in a manner to pass freely from the box as working fluid and having a shiftable member or In this instance the improvement pertains to it is withdrawn. The ribbon is made in two part, automatically operated to change the axle nuts, and has for its object the provision of a compensating means adapted to take up or more layers, passes over the top of the direction of rotation. REVERSING-GEAR FOR GASOLENE-EN the lost motion occasioned by the wearing of box to inclose carbon sheets therebetween in order that when the top layer is written upon, GINES.—II. E. ZASTROW and J. H. KOEPP, the end of an axle hox, and thereby holds the sages? A. The grounded telephone line upon two copies more will result. Means provide Portage, Wis. The invention consists in for inprinting the succeeding layers. In the succeeding layers. means for reversing without having to gain ORNAMENTAL FENCE.-J. FORSTER, Jos access to the interior of the engine, and it C. W. TOBEY, Fairhaven, Mass. This improve- graph signals you hear are probably those of

assembled that a skilled workman is not able circuit controller. necessary.

COMPOSITION FOR TREATING PAPER. -J. CZERNY, New York, N. Y. The invention it hard, durable and resistant, particularly

LOCK FOR ELECTRIC SWITCHES.-F. W. desirable in the manufacture of hair bottoms and many other articles. They will withstand gines.

MANUFACTURE OF ALLOYS. - G. E.

Household Utilities.

CLOTHES-LINE HANGER .--- F. W. SCEUER. is to provide a hanger to support a clothes dangers incident to leaning out of a window for that purpose.

The invention relates to combs, sucn, for in-Scotland. In the present patent the invention stance, as are used for dressing the hair, the has reference to multiple expansion reversible more particular object of the inventor being steam turbines wherein the rotary distribution Of Interest to Farmers. MILK-SAMPLER.-W. F. BÜCHER, Wash-whereby the comb is rendered composite in ing the expansion of the steam and determinington, D. C. In sampling milk from a can, character, its several parts being thus ren- ing the direction of the revolution of the

> FIRE-KINDLER .- W. H. HAGGERTY and W. ing of a suitable gas burner adapted to be suspended from the grate of a stove, open fire-place or the like, and heat the fuel therein in a few minutes to the point of ignition.

Machines and Mechanical Devices. CASTING AND CONVEYING MACHINE.-

W. MCVAY, Bellaire, Ohio. This casting and conveying machine is arranged to receive the being different, and the colors of the same molten metal from a blast-furnace in the casting-house, cast it into a convenient size and thereafter convey the casted iron or pigs, as they are usually termed, to the required point of discharge.

SAW-HANDLE .- W. B. MCCAIN, Clearlake, Wash. In the present patent the improvement has reference to saws manipulated by hand, and its object is the provision of a saw-handle which is simple and durable in construction, easily removed from the saw-blade, and without the aid of a wrench, screw-driver or other tool.

In this case the invention relates to type- suspended from an axle by means of chains, either electro or permanent, and the other to writers, and especially to that type of these. The main feature of the improvement is the weigh two ounces and be permanent? Λ . The machines which employs type bars. The ob- pivotal connection between the hounds and repulsion between two similar magnet poles ject of the invention is the production of an tongue, or any form of rigid arm suitably constructure for building culverts and the like of improved arrangement which will facilitate the nected with the axle so as to serve practically opposite poles in the same position, whether renewal of the type bars when they become as a rocking lever. worn.

conveniently building the culvert and to allow! COPY-HOLDER ATTACHMENT. - T. E. N. Y. The more particular object in this inready removal of the structure after the con- FORD, Philadelphia, Pa. The invention relates vention is to provide a form of mask suitto typewriters, and concerns itself especially able for use by chauffeurs and drivers of vewith a device adapted to hold copy and which | hicles, the construction being such as to pre-The invention relates to educational is intended to be attached to the frame of vent the collection of snow, sleet, frost, or appliances, and its object is to provide a new typewriters of the form used especially for and improved tellurian arranged to demon- writing upon open books, or tabulating sheets. the mask so as to obstruct the vision.

WAVE-POWER MOTOR -Granby, Col. Among other objects of this in- be automatically operated to detach and attach FOREHEAD-BAND.-C. W. MABEY, Indian- vention is to provide a machine in which suit the traces of the harness quickly and with apolis, Ind. The invention has for its object able provision is made for the unequal levels little labor, and to inclose all of the operating to provide means adapted to relieve a person of the water caused by the rising and falling parts in order that they may be obscured of headache and insomnia. The covering ma. of the tide, combined with a power trans- from view and protected from the weather. trial may be saturated with chemicals of a forming mechanism to reduce the quick, impul-, LAMINATED TIRE. — J. W. CARHART, and leaving by one of its exit wires? A. We character suitable to relieve headache or in- sive and variable movement of the parts in- Austin, Texas. The invention relates to tires, should not expect a meter to register unless somnia, and such chemicals are by means of itally driven by the motor, to a constant, such, for instance, as are used upon automo- all its binding posts had wires attached to them.

covering material by the heat of the forchead of the wearer. It may be worn with a hat. PENCIL-HOLDER AND POINT-PRO-Washougal, Wash. In this patent the inven-

CLUTCH.-B. F. REICHENBERGER, Township rotary elements. It is useful in connection with various branches of mechanical arts, but is especially intended for application to the crank shaft and fly wheel of traction en-

APPARATUS FOR GENERATING ΛND STORING PRODUCTS OF COMBUSTION UNDER PRESSURE .- T. H. COLE, 54 Margate road, Southsea, Hants, England. Mr. Cole's engines, pumps, sea valves, torpedo tubes, and | confined space, and it has for its object to pro-PARTY-LINE TELEPHONE SYSTEM.-G. the like, which are brought into contact with vide means whereby the greatest practicable oxidize or set up galvanic action in the pres-ence of iron and steel. is adapted to work on a four-phase cycle.

STEAM-TURBINE .- E. HARVEY, New York, N. Y. The invention is an improvement in Plainfield, N. J. The design in this invention steam turbines especially directed to compound condensing marine engines capable of being reversed. The turbine engine is capable of with a novel form of piston.

REVERSING STEAM-TURBINE. - W. C. COMB.-J. G. HIGGINS, Chattanooga, Tenn. GARDINER, 17 St. Clement Street, Aberdeen, rotor.

Pertaining to Recreation.

PUZZLE.-W. WERNER, New York, N. Y. I'he puzzle is preferably in the form of a deck of playing cards and consists of a number of cards, numbered consecutively and arranged in sets or suits, each set being formed by a.number of cards, and each card being provided with a colored design, preferably a geometrical figure, the designs and their colors in a set being different, and the colors of the same. Special Written Information on matters of personal rather than general interest cannot be expected without remuneration. Scientific American Supplements referred to may be had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of children's use, and consists primarily of a doll, Minerels cent for figure, the designs and their colors in a set designs in the several sets being different.

children's use, and consists primarily of a doll Minerals sent for examination should be distinctly marked or labeled. able the doll to be placed in different positions and made capable of various movements to suit the fancy of the user.

Pertaining to Vehicles.

LOG-CART .-- J. A. PERRY, Burgaw, N. C. of the magnets be turned end for end? Also, The invention is an improvement in that class what repulsion would it be possible to get TYPE-WRITER.-C. GIBBS, New York, N.Y. of log carts or carriers in which the log is between two magnets, one of any weight and

EYE-PROTECTOR.-E. VERDEAU, New York. hicles, the construction being such as to pre-permeability of the air. The force varies in-vent the collection of snow, sleet, frost, or versely as the square of the distance between water from gathering upon certain parts of the poles. We have never tried the experi-

WHIFFLETREE.-S. A. HAZELTON, Pavilion, N. Y. Among other objects of this invention - T. DANFORD, the inventor provides a whiffletree which can

of a small amount of lumber, therefore making construction of slip clutch between the timing elastic tire is employed which may be of solid it economical of construction, and the parts wheel and its shaft so that the wheel may turn rubber. The construction of the tire fastening may be all cut out by machinery and sold in a given distance on the shaft independently devices with the lugs and links connecting the a detached form to the person desiring to use of the shaft and then take up against and turn hooks provide means that co-operate with indethe same, for the parts may be so easily rigidly with it, in connection with an adjust-pendent rings of the supporting tire, the flexibility of the stud connection co-operating with the yielding of the rings of such supporting 4, Brown Co. Kan. In this patent the inven- tire in securing flexibility of the wheel. Means tion has reference to a clutch for connecting operate for extending the supporting plates tire in securing flexibility of the wheel. Means toward securing the desired flexibility of the wheel.

> VEHICLE-TIRE .--- G. E. HUGULEY, Atlanta, Ga. One purpose of the present invention is to provide a supplemental tread section for the outer tubes of pneumatic tires, or any rubber tire used upon wheels of automobiles or similar heavy vehicles, which supplemental tread section can be quickly, conveniently, and firmly applied.

Design.

DESIGN FOR RIBBON .- E. M. CORBETT, Paterson, N. J. This ornamental design for a ribbon comprises a band of fabric with vertical double lines and single cross lines which make a pattern of very small squares. Bow knots run in an oblique direction and at regular intervals down the ribbon.

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.

HINTS TO CORRESPONDENTS. Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endearor to reply to all either by letter or in this department, each must take his turn. Buyers wishing to purchase any article not adver-tised in our columns will be furnished with addresses of houses manufacturing or carrying the same.

(10542) V. B. asks: I would like to obtain some rule for the repulsion of permanent magnets: For example: if two magnets have an attraction of two pounds pull, what would be the repulsion between them if one is the same as the attraction between two they be permanent or electro-magnets. The repulsion dies out very rapidly as the poles move away from each other, and the attraction increases very rapidly as the poles approach each other. This is due to the low ment to find the maximum force which could be obtained in any given case, but there is no answer to your indefinite question as to the force between a magnet of any weight and form and a permanent magnet weighing two ounces.

(10543) C. E. R. asks: 1. Will an alternating current meter register if the current is coming in at one of its entrance wires biles and other road vehicles, the more particu- them. You should, however, refer the matter lar object being to produce a tire built up to the company controlling the meter, since of laminæ so as to possess great strength and there are many kinds of meters of widely difresiliency, and to be easily constructed of comparatively cheap materials as well as to be easily repaired, or to be replaced either in whele or in parts tions of an alternating current, giving an in-JOINTED-SPINDLE AXLE.—M. BIDEAU, 16 termittent direct current? A. The plates in an electrolytic rectifier are generally iron and Cité d'Antin, Paris, France. The invention electrolytic rectifier are generally iron and relates to axles having jointed spindles, chiefly aluminium, the electrolyte some potash salt. designed to receive the steering wheels in a spin one end is ground return 4 mile telephone line motor-car, and the object is to so mount or fit when one end is grounded and a receiver conthe axle that it will allow of a ball bearing nected at the other, sounds are heard which are separated into dots and dashes, which stud of the vertical joint of these parts to | contained by here of the second lighting circuits is also heard, but has a quite different sound. At times there are apparently dots and dashes being sent by several different coils at the same time, as their tones are different, some high, some low, some loud, some weak. There is no coherer or other de-tector in the circuit. Under these conditions is it possible to hear wireless unattuned mes-WIIEEL-I. W. GILES, New Bedford, and sort of sound in the neighborhood. The tele-