RECENTLY PATENTED INVENTIONS. Electrical Devices.

AIR-DRIER FOR STATIC ELECTRIC MAspecial reference for this use and combined with rounded or inclined smoothing faces at the the machine as an integral part thereof, whereby the moisture is eliminated from the air within the casing by condensation and congelation on a refrigerating receptacle over which the body of air from the casing is continuously circulated in an endless cycle by means of a fan.

Of Interest to Farmers,

CAMPBELL, Blooming Grove, Texas. The aim in this invention is to produce a tramper having means for controlling the feeding of the lint through the same, so that when the compressing plunger is in its withdrawn position the feeding operation proceeds, but when the plunger is advancing, the feeding operation ceases.

TRACK-CLEARER FOR MOWERS. — G. grass as it is cut from the standing grass, completely within the swath cut by the mower, and have a space on the outer side of the swath clear of cut grass, in which the horse can walk and follow in the succeeding cut.

throats between the fingers and the teeth. The in a suitable receptacle, when the trays are portion wedged the tightest will draw the vine not in use, or are to be shipped to different and passing the vine to the next pair of disks. to be exposed for sale. The nuts and leaves fall on a screen, the leaves and vine being blown out while the nuts pass to the stemming device, which removes the stems, and the nuts then pass into a conveyer, the trash being blown away.

Of General Interest,

FLOAT FOR LOGS .- W. J. PIERPONT, JR., Savannah, Ga. In operation the fastening pin or spike may be driven into the log or timber and the buoy body be then secured upon the pin, and when the log has reached its destination the float, including its fastening pin, may be withdrawn from the \log , thus avoiding the use of any nails or other metallic fastening Vt. The invention relates more particularly which may be broken off in the logs and injure saws or other tools used in working the logs.

mines. It is especially applicable to the ven-multipliers. tilation of coal mines in which noxious gases are liable to accumulate, but it is also applicable to any mine in which the removal of foul air is desirable.

COMPOSITION OF MATTER.—C. A. GOLD-SMITH, York, Pa. The invention is a compoment of smoking tobacco, and tobacco for use natural appearance in life. in making cigars, and the object is to provide a liquid for treating the tobacco for removing therefrom the musty odor and cellar smells and other foreign odors sometimes found in tobacco.

BOX .- P. H. KRAETSCH, Astoria, Ore. The the tray.

SIPHON.—S. J. GRAHAM and A. E. FOWLER, Trout Lake, British Columbia, Canada. The discharge leg of the siphon is provided with a valve such as to prevent the suction of air RAILROAD-TIE.—E. A. Buell, Norfolk, Va. into the leg through its discharge end, but The invention is an improvement particularly permits the passage of a fluid in the opposite in metal ties. It provides a construction direction; and an air pump having a connection with the siphon for exhausting the air therefrom. In connection with the siphon is a vent opening having a manually-operated valve by which the flow of the liquid may be easily controlled.

WINDOW.-J. CHLEBORAD. Omaha, Neb. By releasing a locking pin, either of the window sashes may be rotated in its groove, whereby to open the top or bottom of the window, or road tracks, particularly in the ties and the Alexander the Great. The articles on "Alto reverse the position of the sashes. In asplace, and the parting strip is inserted and the or stop is secured in place by screws.

DOOR-HANGER.-G. L. SCHNEPE. York, N. Y. The invention is an improvement in door hangers and tracks for sliding doors, primarily such as include free and lineally movable roller hearings between the track and hanger, and has in view a hanger and track by which the door may have an increased travel over doors supported on tracks and hangers of the same working length as hitherto

ROLLER.-H. 'R. DERBY, Jerseyville, Ill. The roller is suitable for pulverizing and smoothing the ground, the pulverizing taking place when the roller is moved one direction.

rection. These two operations are performed by a single roller constructed with a series of disks independently revoluble, each disk hav-CHINES.—M. R. FARRAR, Greensboro, N. C. This drier for such static machines as the radial or pulverizing faces at one side and radial or pulverizing faces at the radial or pulverizing faces at the

MOLD FOR MAKING FLUTED COLUMNS. -J. P. ARCHDEACON, Boston, Mass. The inventor provides a mold for making fluted columns of cement, plaster or other plastic material, the mold being arranged to permit of building the column at the intended place on a building or in a shop, and giving it the desired tapering form and producing the flutes on the exterior surface with gradually less AUTOMATIC COTTON-TRAMPER.—E. H. depth and width according to the taper of the column.

LOCK FOR TOY BANKS.-C. HANSEN, San Antonio, Texas. The invention relates to toy banks, and has for its object to provide a bank with a door to which is secured a receptacle which is adapted to contain camphor, menthol, or other similar substance, which will gradually decrease in size when exposed to the air, BRAUN, Duncan, Neb. The improvement has in there being a supported bolt on which there is view a device which will effectually throw the a plate which is adapted to press against the contents of the box; and means provide for a pawl to slip off a bar when the door will be found to be unlocked.

FOLDABLE DISPLAY-TRAY FOR MER-CHANDISE .- F. R. FAULK and T. BRATT, Alle-PEANUT PICKER AND STEMMER.-J. T. gheny, Pa. The purpose here is to provide a BENTHALL, Suffolk, Va. In this device the construction used for exposure of seed packages vines are fed into a hopper, are seized by or other merchandise, in a prominent manner, disk fingers and become partially wedged in the and that adapt the trays for close assembling through the other throats, stripping the nuts localities where the goods held in the trays are

Household Utilities.

FIRE-LIGHTING DEVICE.—J. FERO, Bellingham, Wash. The object here is to provide details of construction for a fire lighter which is controlled by the ordinary alarm mechanism of a portable alarm clock, and that will ignite fuel in the fire pot of a stove or range, when

Machines and Mechanical Devices.

COMPUTER.—C. A. PITKIN, Montpelier, to that type of computer in which there are provided two relatively movable members, one of which carries a series of multipliers and the SYSTEM FOR MINE VENTILATION.—D. other of which carries a series of multiplicands, Belloni, Edri, Pa. Mr. Belloni's invention reand for each of the latter a series of products lates to improvements in means for ventilating resulting from the use of each of the several

EXHIBITING DEVICE.—E. W. LIVERMORE, Bellingham, Wash. The object of this invention is to produce a device which is especially adapted for use in exhibiting fishes. The construction is such that the mounted fish will be presented to view within a glass jar and under sition of matter designed for use in the treat- water, so that they resemble closely their

Prime Movers and Their Accessories.

ELASTIC-FLUID TURBINE .--- J. P. NIKO-NOW, Evansville, Ind. The invention relates BOX.—P. H. Kraetsch, Astoria, Ore. The to turbines of the general kind used in con-object of the invention is to provide a box nection with elastic fluids, such as steam, comprovided with a plurality of compartments, for pressed air or gases of combustion, the more containing postcards, each of the compartments particular purpose being to produce a device being independently removable from the box. of this type having its parts so shaped and The cards may be inspected without removing arranged as to be easily assembled, and in its them from the tray, a notch permitting the complete form offering particular advantages lowermost card to be lifted from the bottom of as to replacement and interchangeability.

Railways and Their Accessories.

RAILROAD-TIE -E. A. BUELL, Norfolk, Va. whereby rails may be securely held from spreading and will be cushioned, and the cushion will have its elasticity entirely confined within the tie and the rail can rise and fall without displacing the tie, thus permitting the rebound of the track without loosening the tie in its ballast, or other seat.

RAILROAD-TRACK.—E. A. Buell, Norfolk, tactfully and yet ably discussed. General von cushioning and fastening devices. The cushsembling the window the casement being in ioning block of wood is confined in a recess position, the front or upper sash is put in and a metal cap which confines the cushion in the recess projects into the recess so that lower sash is put in place. The inside rim is no portion of the cushion block is exposed and then placed in position, and the annular ring the elasticity of the block wholly available or fully utilized.

Pertaining to Vehicles.

WIND-SHIELD .- J. H. SPRAGUE, Norwalk, Ohio. The invention more particularly relates to improvements in the frame which supports the transparent section. One object is to pro vide improved means for connecting the lower portion of the frame with the dashboard or filler-board interposed between the wind shield and dashboard.

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 and smoothing when moved in the opposite di- the invention, and date of this paper.

NEW BOOKS, ETC.

FACTORY ORGANIZATION AND COSTS. By J. Nicholson. New York: Technical Publishing Company, 1909. Quarto; 410 pp. Price, \$12.50.

This work is intended primarily as a handbook for manufacturers who are interested in modern methods of organization in systems of accounting, as a book of reference, and also as a text-book on cost accountings for the student. It requires a fully qualified accountject. The author has a splendid grasp of the theory and technique of cost accounting. Critical examination of this book shows that has been neglected or slighted in any way. The forms are given on a good scale, making it easy to compile forms adapted to the individual needs of the cost specialist. The book is beautifully gotten up and is a credit to both author and publisher. There are also chapters relating to office appliances, which very full. If large concerns were of the savings that could be effected with the use of this machinery, they would not hesitate an hour to put in the necessary equipment. Many a firm has gone to the wall for the lack of statistics which an adding machine vould have helped to turn out in a few days. One section of the book which strikes us as being particularly valuable is the distribution of indirect expenses, which is the bugbear of any one who attempts to analyze accounts.

EFFECTIVE MAGAZINE ADVERTISING. 508
Essays, About 111 Advertisements.
Edited, with an Introduction to the Science of Advertising Copy, by Francis Bellamy. New York: Mit-chell Kennerley, 1909. Large 8vo.; 361 pages. Price, \$5.

A couple of years ago Everybody's Magazine offered a series of prizes, ten in number, of \$25 each, for the ten best essays in answer to the pertinent question, "Which is the most effective advertisement in this November issue of Everybody's Magazine?—and why?" The aim of this offer was to gain information the alarm is put in motion at the instant of wind would be of value to the art of advertising in general, and to the art of magazine advertising copy in particular. people who are influenced by advertising are the only criterions of effective copy. The mere subjective theory on the part of the copyartificer is valueless, unless proved by the effect on the magazine reading public. In other words, the advertisements were "tried other words, the advertisements were "tried on the dog," and the "dog" responded in the 500 essays which are herewith presented, which were in turn selected out of some 950 essays. This book is a clarification of the advertising pages in the issue. The selected advertisements are well printed, and are accompanied by excellent essays written by individuals. It is remarkable to see what a hold advertising has on the American people, and it is little wonder that advertisers continue to spend their millions in periodical publicity when they can see that their efforts are appreciated by such a highly intelligent audience of readers and buyers. The book is a very novel one, and we can heartily commend it to all who are interested in any way in buying or selling advertising space.

HANDBUCH FUR HEER UND FLOTTE. Kreigswissen-Enzyklopädie der schaften und verwandter Gebiete. Herausgegeben von Georg von Alten, Generalleutnant z. D. Vollständig in 108 Lieferungen reichillustrierten Textes mit farbigen Beilagen, Karten, Plänen, Gefechtsskizzen, etc. Deutsches Verlagshaus Bong & Co., 1909.

The last four installments of this handbook are primarily distinguished by the insertion of longer essays, which discuss the handling of troops. The essays are to be found under the headings Angriff (attack), Angriff und Verteidigung (attack and defense), and Arméereserve (army reserve). The author of these essays is a military instructor of repute, and evidently an authority. Many authors of note have covered important topics. Count von Beck, an Austrian general of infantry, has prepared an excellent biography of Archduke Albrecht of Austria, and has interestingly traced the career of this officer. The stirring events of 1866 are geria," "Tunis," "Arabia," and "Argentine Republic" ably discuss the military geography and military history of these foreign countries. The importance of the age of men, animals, and warships in their relation to military science is well brought out. Among the novel articles that deserve mention are those on "Amsterdam" "Anchor" "Antwern" Under "Armament" an excellent discussion of the army and of warships will be found.

THE LIFE OF A FOSSIL HUNTER. Charles H. Sternberg. New York: Henry Holt & Co., 1909. 12mo.; 286 pages. Price, \$1.60 net.

This is one of the "American Nature Series." This is a new and attractive series, the first volumes of which have already been published. The author is the oldest and best known of the explorers in the palgeontological field, and he has contributed some of the finest specimens from Kansas, Texas, Oregon, and other places, which adorn the museums of America and

Europe. It is a most interesting biography. bubbling full of adventure and representing a life of self-sacrifice worthy of record and recognition by all lovers of nature. It is handsomely bound and printed.

THE BIOGRAPHY OF A SILVER FOX. Ernest Thompson Seton. With 100 illustrations by the author. New York: The Century Company, 1909.

Although Mr. Thompson Seton has been branded by a faunal naturalist now in foreign ant—be he private or certified—or a business parts as a "nature fakir," it cannot be deengineer to deal with this most important sub- nied that he writes with sincerity and with charm. This little story of "the monogamy of the better class fox," to quote the author's words, may be regarded as a graceful narranot a single germane item of any description tive of animal life, the kind of narrative that has made Mr. Seton deservedly famous.

Legal Notices



lons strictly confidential. Handle in the free Oldest agency for securing Patents taken through Munn & medial notice, without charge, in the

handsomely illustrated weakly. Largest circulation of any scientific journal. Terms, \$3 par; four months, \$1. Sold by all newsdesler MUNN & CO 36 1 Broadway, New YORK Branch Office. 626 F St., Washington, D. C.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending June 29, 1909,

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

-	
Abrasive materials, flexible support for, C.	
	926,524
Acetylene generator, J. H. Ross Adding and listing machine, L. S. Crandall Adding and subtracting machine, Brown & Burks Adding machine, J. C. Vincent Advertising device, automobile, Heales & Neall	926,610 926,319
Adding and subtracting machine, Brown &	020,010
Burks	926,166 926,151
Adding machine, J. C. Vincent	926,101
Neall	926,180
Advertising device for paints, calcimines,	020,100
Aerodroma U A Ormo	926,436 926,593
Aim recording apparatus, J. B. Bolitho	926,541
Air compressor, Lampman & Kittelberger	926,124
Advertising device, automobile, Heales & Neall Advertising device for paints, calcimines, etc., H. W. Pearson. Aerodrome, H. A. Orme Aim recording apparatus, J. B. Bolitho Air compressor, Lampman & Kittelberger. Air inlet, fresh, Levy & Young. Animal trap, T. H. Huggins Apparel hanger, F. N. Kershaw Ash pan and burner, combined, J. F. Williams Automobile for folding or collapsible H.	926.705
Annarel hanger F N Kershaw	926,419 926,33 7
Ash pan and burner, combined, J. F. Wil-	020,001
Ash pan and burner, combined J. F. Williams Automobile top, folding or collapsible, H. M. Hoelscher Automobile turn table, W. T. Coleman Awning socket, J. Kennedy Axles, spring buckle for securing springs to, P. Daimler Barometric condenser, E. G. Helander. Barrel, W. W. Lytle Barrel, D. Hughes	926,531
M Hoelscher	926,118
Automobile turn table, W. T. Coleman	926.388
Awning socket, J. Kennedy	926,190
Axies, spring buckle for securing springs	000 170
Barometric condenser, E. G. Helander	926,176 926,48 0
Barrel, W. W. Lytle	926,502
Barrel Thomas & Pologrin	926,569
Barrel, double-walled, A. H. Handlan Jr.	926,623 926,324
Barrel hooping machine, J. Hency	926,324 926,187
Battery. See Storage battery.	
Barrel, D. Hughes Barrel, D. Hughes Barrel, Thomas & Pelegrin Barrel, double-walled, A. H. Handlan, Jr Barrel hooping machine, J. Hency Battery. See Storage battery. Battery plate, bifunctional storage, A. O. Tate Battery plates, making, G. J. Miller	926,710
Tate Battery plates, blunctional storage, A. O. Tate Battery plates, making, G. J. Miller. Bearing, ball, K. Schmidt Bed and mattress therefor, convertible, L. B. Jeftcott Bed, folding, L. B. Jeftcott Bed, folding, J. Ranko Bed pan, J. M. Crater Bell ringer. A. O. Van Dervort. Belt fastener, F. O. Stenzel Billlard tables, construction and mounting	926,278
Bearing, ball. K. Schmidt	926,294
B. Jeffcott	926,421
Bed, folding, L. B. Jeffcott	926,420 926,438
Bed, folding, J. Ranko	926,438
Bell ringer, A. O. Van Dervort	926,103 926 444
Belt fastener, F. O. Stenzel	926.444 926,616
Billiard tables, construction and mounting of, Terrey & Warren	
	926,516
Block mold, J. D. Barber	926,231
Block mold, J. D. Barber Block signal for trolley systems, automatic, P. N. Pecci	000 497
P. N. Pecci Boat, sheet metal, G. H. Hyde Boats, means for automatically releasing	926,43 7 926,25 2
Boats, means for automatically releasing	
ships, R. Archibald Boll weevil trap, J. M. & P. J. Coco Bolt cutter, T. A. Hall	926,453 926,244
Bolt cutter, T. A. Hall	926,559
Boots and shoes, eyelet for, J. F. Chalk	926,317
Bolt cutter, T. A. Hall J. F. Chalk Boots and shoes, eyelet for, J. F. Chalk Bottle capping machine, G. Kirkegaard Bottle filling and capping machine, G.	926,425
Kirkegaard	926,424
Bottle holder, R. C. D. Legg	926,42 4 926,339 926,580
Rottle or recentacle collarsible I. P.	926,580
Brown	926,237
Brown Bottle stopper, E. Goldstein Bottle, etc., stoppering device, Jones &	926,403
Bottle, etc., stoppering device, Jones &	926,571
Braun Bottle support and stopper puller, M. A.	-
Gould	926,112
Box. J. Cochran	926.550 926.640
Box or carton, C. C. Palmer	926,640 926,208
Boxes, machine for applying fastening de-	000.070
Gould Bottling device, F. W. Dafoe	926.670 926.089
Braiding machines, movable racer of, W.	
Braiding machines, movable racer of, W. N. Edwards	926,106
Brake beam, E. I. Dodds	926.395
N. Edwards Brake apparatus, limit stop, A. Sundh Brake beam, E. I. Dödds Brake head, S. J. Strid Brake mechanism, A. Larsen	926,299
Brake mechanism, A. Larsen	926,578
Brush, bath and complexion. W. R. Blowers	926.462
Brake mechanism, A. Larsen Brake mechanism, G. E. Titcomb Brush, bath and complexion, W. R. Blowers Bucket, turbine, C. H. Smoot. Buckle, C. O. Anderson Buggy top support, W. C. Putma counting	926,442
Buckle, C. O. Anderson	926,634
Bulkhead doors, mechanism for operating	<i>a</i> 20,002
water tight, H. M. Gleason	926,111
Buoy, acetylene gas, R. M. Dixon	926,475
Button link or fastener. E. B. Bayliss	926.383
Cabinet. card. G. B. Meleney	926,204
Capie squeezer, H. D. Robinson	926,609
Buggy top support, W. C. Putman. Bulkhead doors, mechanism for operating water tight, H. M. Gleason Buoy, acetylene gas, R. M. Dixon. Button, O. P. Talley Button link or fastener, E. B. Bayliss Cabinet. card. G. B. Meleney Cable squeezer, H. D. Robinson Cameras, magazine plate holder for photographic, R. J. & J. A. London Camp chair, portable, W. J. Curry. Camp, portable, G. R. Starnes	926,662
Camp chair, portable, W. J. Curry	926,472
Camp, portable, G. K. Starnes	920,083