RECENTLY PATENTED INVENTIONS. **Electrical Devices.**

REGISTERING DIFFERENTIAL - SPEED INDICATOR .-- J. RICHARD, 25 Rue Mélingue, Paris, France. The invention relates to an improved registering differential-speed indicator, and is useful in the study of alternating currents and for other purposes where it is desired to measure fluctuations of speed. The displacement of the differential train is recorded and amplified, so that a slip equal to a small fraction of a revolution can be observed.

Of General Interest.

PIPE OR CONDUIT .- C. H. WILSON, Red Oak, Iowa. A pipe or conduit is employed pump of the apparatus to supplement or recomprising a metallic frame, around which is inforce the pressure in the reservoir for subapplied or molded concrete or other com-posite material of which the structure may be formed, the frame becoming thereby embedded within such material. In manufacturing sec-tions of which the pipe is made portions of states to means for automatically taking up and the pipe is made portions of tates to means for automatically taking up prize. The same is a sequent stops in the application of the air-brakes. SLACK-ADJUSTER. — C. O. ANDERSON, Omaha, Neb. In this case the invention re-tions of which the pipe is made portions of the same is a sequent stops in the application of the air-stops of the forme of the forme of the forme of the structure may be tons of which the pipe is made portions of the same of the sequence of t certain members of the frame at each section slack which may occur in the brake-rigging of are left free of composite material at ends of railway-cars, due to wear on the brake-shoes the section, thereby enabling adjacent ends of \mid or other parts. The apparatus may be used successive sections to be united, after which on either hand or power brakes and will not further composite material may be applied to interfere with the employment of the usual joints between sections in completion of the manually-operated stack adjustment. pipe.

COMBINED SCOPE AND DISTANCE FINDER.-T. H. MITCHELL, New York, N. Y. The inventor's object is to provide a finder for use in connection with a camera and arranged to permit the user to conveniently and quickly determine the scope of the object to be photographed and the exact focal distance between the camera and object, to allow quick, convenient, and accurate adjustment of camera according to the distance obtained, to produce a sharp focus of the object and the subsequent production of photographic views of high quality and merit.

adjacent ends of the board, the apex of the in the leaflets whereby to permit the leaflets of blotting-paper or preferably with calen- especially designed to resist. dered-surface on one side and a blotting-surface on the other. At the beginning of each week the leaflet of the previous week is removed and used as a blotter.

Hardware.

The inventor's object is to provide a Ala. saw-set arranged to permit of accurately setting a large number of teeth in a short time without the aid of skilled labor and insuring long life to each saw-tooth, as the latter are hammered while being set, and hence are not liable to break off or spring back to former position. The several parts can be readily adjusted to permit of setting saws of different width, thickness, shape of teeth, etc., and by using a plunger or hammer the tooth is gradually hammered down onto the anvil, so as to remain perfectly set without danger of springing back.

Machines and Mechanical Devices.

WASHING-MACHINE.-R. J. DUNGAN, 28 East Oak Street, Norristown, Pa. In this case the invention has reference to improvements in machines for washing clothing, the object in machines for washing clothing, the object Inquiry No. S185.-For manufacturers of "cotheing to provide a washing-machine of simple ton-flock" for the wall-paper printing trade. and novel construction that may be of comparatively small size, yet capable of rapidly and thoroughly cleansing the clothing.

MECHANICAL MOVEMENT .- F. N. LIV-INGSTON, Ballard, Wash. The invention pertains to a new mechanism for transforming reciprocatory into continuous rotary motion, and, conversely, for transforming continuous rotary into reciprocatory motion. It is useful principally as a substitute for the crank-shaft, although it may be put to other uses, as will suggest themselves to skilled mechanics.

CALCULATING-MACHINE.-C. Α. MEI-LICKE, Hanley, Assiniboia, Canada. The object of this invention is to produce a simple mechanism which will enable charges or ac-counts of different kinds to be easily com-It is especially applicable in computed.

when the frame is of unusual shape, having re-entrant portions, and the provision of means for conveniently removing the frames from the machine.

Railways and Their Accessories.

AIR-SUPPLY APPARATUS FOR AIR BRAKES .- E. B. ALLEN, LOUISVILLE, Ky. This apparatus not only keeps the air-supply up to its standard pressure at all times, but also utilizes the power in compressing this auxiliary charge as a means for stopping the train, thus securing a double effect, since the power used to oppose the stopping of the train in one instance operates through the boostersequent stops in the application of the air

STEP-HOLDER FOR CARS .-- J. EDWARDS New York, N. Y. The improvement pertains to running-boards or steps of street-cars, such as used usually at the sides of so-called "summer cars." Where such cars are operated on double tracks it is usual for the inner board or step to be turned up out of the way, this step being usually mounted upon pivots or hinge connections for this purpose. The object is to provide simple means for supporting the running-board and for holding same in folded position out of the way.

DOOR-FASTENER .- J. P. SNELGROVE, lanta, Ga. The fastener is especially adapted CALENDAR.-J. N. PARKER, Bedford City, for car-doors, although it may be used upon va. The calendar comprises a series of leaf- any class of sliding doors. It obviates the lets, a suspension-board, and triangular links necessity of cleating the door and when sealed connecting the ends of the leaflets and the cannot be unlocked without breaking the seal. It is easily assembled, and broken parts can links being connected to the board and the be easily replaced. There is but little liability base thereof passing through alined openings of breakage from swinging outward of the door, since in such swinging the stress will be to hang parallel. Each leaflet may be made directed outward, which stress the latch is

Pertaining to Vehicles.

WAGON-WHEEL .- I. T. HURD, Lansing, Mich. The effect aimed at in this invention Mich. The effect aimed at in this invention can out the net department indicated, is the provision of a new and improved wagon. the description which you give of what took Con Con wheel more especially designed for use on road place in your case, we judge that there was no SAW-SET.-J. F. DORMAN, East Tallassee, and farm wagons and arranged to combine contact of bare wires, and perhaps no, wires strength with durability and to allow forming came into contact at all. The swinging of the Contact at all. the wheel of wood with a hub and tire of metal.

> be furnished by Munn & Co. for ten cents each. ground showed that the wire had not broken Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry. MUNN & CO. find

Marine Iron Works. Chicago. Catalogue free.

"U. S." Metal Polish. Indianapolis. Samples free Inquiry No. 8186.—For makers of styptic pencils n quantities.

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 8187.-Wanted, the address of the Crown Cap Co., manufacturers of the metal cap for bottles; also for makers of similar bottle caps.

I sell patents. To huy, or having one to sell. write Chas. A. Scott, 719 Mutual Life Building, Buffalo, N. Y. Inquiry No. 8188.-Wanted, the name and ad-dress of a second-hand dealer in screw and drop pressers.

WANTED.-Architectural draughtsman, capable de-State experience and salary. Hutchinson & Nohles, Regina, Sask, Canada.

Inquiry No. S189.-For makers of mail order goods.

of light Metal Goods, Dies and Metal Stamping



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 endeavor to reply to all either by letter or in this department, each must take his turn.

his turn. In the dependent, the index into the ers wishing to purchase any article not adver-tised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Buyers

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

(10032) W. J. B. asks: Is it prefer. Ca able to have all south poles on one side and all Ca north poles on the other to work independent Ca armatures suspended above them, or will alternate polarity, north and south, give as good results? A. We do not see that it makes any difference in which way the several armatures Ca are connected up, so long as each magnet works Ca by itself, as your sketch shows that it does. It is more symmetrical to connect all the Ca same and then in any repair you will know Ca from what point each wire comes.

(10033) F. S. asks: 1. Is there any destructive local action in a storage battery between the oxide filling and the lead allow of the plates? A. No. 2. Will the presence of a saturated wooden diaphragm increase or diminish the resistance to a current passing through a liquid? A. It increases the internal resistance.

(10034) B. W. L. asks: If a bridged, grounded telephone wire came in contact with one wire of a lighting circuit carrying 5,000 volts, would there be any disastrous effects to either? A. It would be very bad for the tele-phone. You would need to put in a new one, since there would not be much left of the old. 2. If one wire of this lighting line were to break and fall across the telephone wire, what would be the probable effect? A. If these wires were bare, the best course would be to call out the fire department immediately. In light wire near your telephone wire would produce all the phenomena you describe; while the NOTE.-Copies of any of these patents will fact that you could get no circuit from the and fallen anywhere along the line.

> (10035) J. R. H. asks: Do you have Cra a SUPPLEMENT that treats of intercommunicating telephones and setting up and construction of same? A. We have no article giving practical details on this point. You can find various systems described in Miller's "American Telephone Practice," price \$3 by mail.

INDEX OF INVENTIONS Dir Di For which Letters Patent of the Dis Dis United States were Issued Dis Dis for the Week Ending Dis Doc Doc Doc Doc June 19, 1906.

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

 Acetylene generator, E. Fonbonne.
 823,677

 Addressing machine, envelop and the like,
 523,677

 J. J. Braun
 823,988

 Airbrake and steam coupling, automatic,
 824,034

 Air brake, automatic, F. J. R. Wagner.
 823,970

 Alarm lock, A. Schoenman.
 823,770

 Amigamator, mercurial, B. Baldwin.
 823,770

 Animal trap, M. E. Mixson.
 823,777

 Aprons, automatic guide for endless, A.
 824,059

 Automobile controlling mechanism, B. A.
 674.059

	June	3 0, 1	906.
Box blanks, means for da lines of folding, David Bracelet, T. W. Foster Brake actuating device, J. Brake beam, C. F. Hunto Brake mechanism, E. O. Brassieres, G. M. Poix Brick, knlfe for striking Hobs.	mpening t lson & W	he scor esson	823,850
Brake actuating device, J.	Post	24, 0 72 to	824,074 823,966
Brake mechanism, E. O.	Flichinger	23,601 to	823,603 823,942
Brick, knife for striking	off, Ja	ckson &	823,547
Hobs Bridle bit, H. Turton Brooches, scarf pins, and lock for, F. Drissler Brooder, chicken, G. S. S Brush, J. W. Ferguson Brush holder, W. L. Wat Buckle, wrought metal, C. ington	•••••••••••••••••••••••••••••••••••••••	823,564	823,787 823,565
lock for, F. Drissler	the like	, safety •••••	823,517
Brooler, Chicken, G. S. S. Brush, J. W. Ferguson.	ummers	•••••	823,9 0 2 823,520
Brush holder, W. L. Wat Buckle, wrought metal, C.	ers S. & A. 1	8. Hunt	823,569
Building construction, Ha	ris & St	ocker	823,868 823,528
Building construction, Ha Burglar alarm, I. Watkin Burial casket, J. D. Ren Buttar and fots apparent	18 shler		823,831 823,741
Butter and fats, apparatu purifying, C. D. Mon	s for melt proe	ting and	823,8●3
Butter canaf cats, apparatu purifying, C. D. Mon Cabinet, compartment, R. Calculating machine, G. Calculating or computing	W. Stur H. Sears.	r	823,901 823,897
Calculating or computing	machine,	J. Gru-	823, 525 823,723
Calendar, perpetual, J. C Cameras, reversible back	uidinger. for photo	graphic,	823,723
D. Borsum			823,759
Hodgson	; machine	, J. G.	823,781
apparatus, J. G. Hodg	g mechai	nism or	823,780 823,983
Can drying apparatus, M. Can loading and countin, Hodgson Can loading and countin apparatus, J. G. Hodg Car, combined stock and i Car coupling, W. Slayden. Car coupling, automatic, Car door lock, C. M. Car Car door operating mechan man	reight, E	Wyati	823,983 823,643
Car door lock, C. M. Car	ahan	so	823,990 823,762
mann	пвш, J. (823,862,	823,863
Car end brace, H. W. Wo	lff		823,631 823,837
Car frame, railway, W. F	. Kiesel,	Jr	823,838 823,790 822 725
Car and brace, H. W. W. Car end brace, H. W. W. Car end brace, H. W. W. Car frame, railway, W. F Car grain door, L. J. M Car root door, J. C. Herr, Car, stock, C. W. McKee Cars. metallic underframe Stucki	mann		823,735 824,077 823 890
Cars. metallic underframe	for passes	nger, A.	823,890 824,084
Cars. metallic underframe Cars. metallic underframe Stucki Malezieux Carducoin, F. W. Stack Carpet fabric, C. C. Stev Carler system, J. A. Sue Case. See Thermometer cr Cash register, L. Cooney, Cash register, W. G. Dot Cash register, W. G. Dot Cash register, L. Cooney, Cash register, W. G. Dot Cash register, K. Cooney, Casting anode plates, mold Cemtrifugal machine, F. K. Chair back, adjustable, M. Check loop, W. Gleck Cheese cutter, computing, Chest, J. Petrelli Chuck, J. Petrelli	ne, J. B.	D. M.	041, 4 84 899 6≜0
Card, coin, F. W. Stack Carpet fabric, C. C. Stor	art		823,608 823,817 824,045
Carrier system, J. A. Sue Case. See Thermometer	erth		823,822
Cash register, L. Cooney, Cash register, W G Dot	Jr		$823,511 \\ 823,516$
Cash register, L. Cooney, Casting anode plates mold	Jr for. P	Cruswoll	823,767 823,977
Cement mold, W. F. Mc Centrifugal machine. F K	Namire		823,963 823,948
Chair back, adjustable, M. Check loop, W. W. Gleck	F. Glenn ner	10 n	824,006 824.005
Cheese cutter, computing, Chest and desk. field. E. S	C. D. Le . Saver.	ender Jr	823,689 823,70●
Chuck, J. Petrelli Chuck, P. Thomas			823,545 824,€85
Churn and ice-cream freez D. & E. F. Mayfield	er, combi	ned, D.	823,612
Cistern, W. O. Wayman . Clamp, F. E. Walden			823,832 823,748
Clock, intermittent alarm,	W. E. P	orter	823,903 823,894
Clothes pin, J. M. McChe	sney		823,931 823,889
Clutch, friction, J. G. Ba	bio	• • • • • • • • • • •	823,8 0 7 823,753 823,746
Cock, emergency angle, W	. vaughn. . H. Mae	dox	823,746 824,€36
Chest and desk, field, E. S. Chuck, J. Petrelli Chuck, F. Thomas Chura and ice-cream freez D. & E. F. Mayfield Cistern, W. O. Wayman Clamp, F. E. Walden Clamp, F. E. Walden Clock, intermitient alarm, Clock, intermitient alarm, Clothes Jinc reel, W. J. C Clothes pin, J. M. McChe Clothes rack, folding, A. Clutch, friction, J. G. Bt Cock, emergency angle, W Cock, Pluz, E. Hill, Jr Coffee roaster, J. S. Mill Collapsthle box, R. Roncor Collapsthle box, R. Wate Comb fastener, Smith & Combing machine, cotton, S. Condiment holder, W. J. Controlling apparatus, irr Remondy Conveyer, G. Stitt	er		823,779 824,037
Collapsible box or crate, V	V. B. Pric	e	823,813 823,967 822 555
Combing machine, cotton,	wool, etc.,	F. W.	823,555 823,844
Commutator, W. L. Wate Compressors relief device	rs	chmen*	823,844 823,568
for, R. Conrader	Bain		823,845 824,●58
Controlling apparatus, irr Remondy	eversible,	L. E.	823,971
Conveyer, G. Stitt Cooker, canned goods. C. H	. Grav	••••••	823,900 823,523
Copy holder, F. E. Whit Copying device, H. H. Ha	aker rrison		823,908 823,860
Copying, press, J. W. Lig Cotton elevator, pneumatic	on , T. S. G	rimes	823,691 823,858
Cotton scraper, blocker, combined, W. R. Cox	and cul	ltivator,	824,066
Urank wheels, counterbalan lake	cing, C. T	West-	823,750
Crate or box, folding. C.	nry & Ma L. Dolph	arsh	823,945 823,515 823,84●
Crate, shipping, F. W. B Cream remover, E. S. Bai	ender tram		823,840 823,986
Cultivator attachment, A.	M. Potts	3	824,080 823,808
Curtain support, window,	W. P. I	owell.	823,665 824,042
Date and note block. comb	ined, J.	823,915, Schwarz	823,916 823,702 823,798
Controlling apparatus, irr Remondy	pensating,	F. F.	823,798 809 204
Directory attachment, H. Display how folding C.	W. Stone.		
Direct acting engine, com Nickel Directory attachment, H. Display box, folding, C. I Display chest for silverwa beck Display dorice, Kehn & Sc	re, etc., 1	E. Her-	823,6 0 4 823,778
Display device, Rann & Se	igie	· <u>·</u> ··· <u>··</u> ·	823,536
Display device clutch me Bragstad Display rack, J. W. Roac Door closer and stop, Hildy Door, grable, J. F. Deardu Door, grain, W. S. Gilleh Door indicator, L. D. Holo Door mat, W. C. Richard Doubletrees and swingletre L. Burg Dough cutting machine, G.		····	824,062 824,083
Door closer and stop. Hildy Door, gable. J. F. Deardu	ard & Dru	immond	824,083 823,532 823,587
Door, grain, W. S. Gillela Door indicator. L. D. Hol	and den		823,943 823,782 823,972
Door mat, W. C. Richard Doubletrees and swingletre	son es, coupli	ng for	823,972
L. Burg Dough cutting machine, G.	E. Gowd	y	824,063 824,008 823,740
Dough cutting machine, G. Dough mixing machine, J. Dough raiser, J. H. Kefa Drawer stops, tool for set	A. Ream	ıs	823,740 823,537
Drawer stops, tool for sett Garden	ing, C. T	. & Н.	823,721

puting interest upon notes, but is capable of	or light metal Goods, Dies and Metal Stampings our	Riker	823,811	Electric light bracket, E. F. Hug 823,533
use in various connections for the general pur-	Specialty. 43-47 S. Canal Street, Chicago.	Baby holding and walking device, P. T. Rit-		Electric machinery, dynamo, W. L. Waters 823,566
	Inquiry No. 8190For makers of or dealers in	ter	823,812	Electric time switch, A. B. Zierleyn 824,054
poses stated, and when in the latter the char-	magnets or loadstones of considerable power.	Band clasping, S. M. Danielsen	823,994	Electric transmission system, C. G. Burke. 823,505
acter of the scales and tables would be changed	FOR SALE Water front in New York harbor with	Bath tub, J. A. Lefferts	823,794	
to suit particular units of measurement or re-	upland and riparian right. Address	Bed, J. L. Dodge	824,068	Electrolysis of water, apparatus for the, K.
quirements.	X. Y. Z., Box 773, New York.	Bed and invalid's chair, combined fracture, J. T. Boyd	823,841	J. Vareille
WASHING AND SCOURING MACHINE.	Inquiry No. 8191For manufacturers or Jobbers	Bed bottom, spring, L. B. Houston	823,600	Elevator brake, M. Fullenlove
R. F. E. OKRASSA, Antigua, Guatemala. The	of a hand or tubular lantern using calcium carbide to	Bed clamp, F. W. Merriweather	823,800	Elevator safety door, J. M. Porter
		Bed, Davenport, Kindel & Coopersmith	823,819	Emergency brake, F. B. Corey 823,992 Eraser, F. M. Burrows 823,918
object of this invention which relates to the		Bod involid W H Armstrong of al	824 657	Excavating and grading machine, universal,
washing and scouring of coffee, grain, and	Engine is built by the De La Vergne Machine Company.	Bed spring tightener, automatic, J. H.	021,001	W. Gilmore
like materials, is to provide a scrubbing-ma-		Thaver	823.824	Excelsior from broom-corn clippings, mak-
chine arranged to insure a quick and thorough		Beet tonner, J. F. Willson	824 051	ing. S. K. Wilson
		Belt, driving, G. W. Parkes	823,892	Extensible bracket, F. L. Demartini 823,588
washing and scouring of the coffee, grain, or	Steel Numbering Machine Co.	Bicycle pedal crank, adjustable, B. Uhl-		Fabrics, apparatus for treating textile,
other material and a complete separation of	Manufacturers of patent articles, dies, metal	mann	823,712	West & Mauck
the washed material from the water or like	stumping, screw machine work, hardware specialties.	Bin. See Sliding bin. Binder frame W. J. Wetters	099 459	Fats and the like from waste waters, ap-
	machinery tools. and wood fiher products. Quadriga	Boiler flue, A. V. Walters		
liquid used as a washing medium.		Boiler with superheating tubes. W. Schmidt	823.551	Feed water regulator, F. H. Plouff 823,635
HAT-MACHINE,-C. P. WILDENBERG, New	Manufacturing Company, 18 South Canal St., Chicago.	Boilers, chemical injector for steam, R. H.		Feeding device, stock, M. J. Overfield 823,806
York, N. Y. This machine is for use in sup-	Inquiry No. 8193For machines for wall paper	Fetta	823,941	Fence, portable wire, J. M. Crawford 823,993
	preparing.	Book cover, C. A. Johnson	823,605	Fence post, J. W. Westlake
porting wires and shaping them in order to	Automobile experts are in constant demand at high	Book, manifolding account, B. A. Baxter	000 == 0	Fence post. F. M. Garry
produce frames for ladies' hats. Principal ob-	salaries. Our seven weeks' course is the most thorough	Boot tree and the like E ron Ferrer	823,795	Filing case drawer support C Ernst 829771
jects of the invention are the provision of		Bottle H D Schood	823 639	Film cartridge, A. W. McCurdy
means whereby the several wires forming a	and practical. fitting men to drive, handle and repair	Bottle holder R B Gilchrist	823.678	Filter, F. Hardie
· · · · · · · · · · · · · · · · · · ·	ing and croning classes, special course for owners	Bottle, non-refillable, G. R. Howey	824.018	Fire alarm, Oatway & May
part of a hat-frame can be conveniently and	New York School of Automobile Engineers, 146 West	Bottle, non-refillable, M. Loftus	824.035	Floor, artificial stone, P. Langguth
accurately supported by means of hooks even	56th Street, New York.	Box, J. Sutherland	823,823	Floor support for buildings. E. P. Sperry 823,558
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