## RECENTLY PATENTED INVENTIONS. <br> 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 desired to measure fluctuations of speed. The
displacement of the differential train is record ed and amplified, so that a slip equal to 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 comprising a metallic frame, around which is
applied or molded concrete or other composite material of which the structure may be
formed, the frame becoming thereby embedded formed, the frame becoming thereby embedded
within such material. In manufacturing sections of which the pipe is made portions of are left free of composite material at ends of the section, thereby enabling adjacent ends of further composite material may be applied to joints between sections in completion of the 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 arfor use in connection with a camera and ar-
ranged to permit the user to conveniently and quickly determine the scope of the object to be photographed and the exact focal distance convenient, and accurate adjustment of camera according to the distance obtained, to
produce a sharp focus of the object and the produce a sharp focus of the object and the
subsequent production of photographic view subsequent production of
of high quality and merit.
Calendar.-J. N. Parker, Bedford City Va . The calendar comprises a series of leaflets, a suspension-board, and triangular links connecting the ends of the leaflets and the adjacent ends of the board, the apex of the
links being connected to the board and the links being connected to the board and the
base thereof passing through alined openings in the leaflets whereby to permit the leaflets to hang parallel. Each leaflet may be made of blotting-paper or preferably with calen-dered-surface on one side and a blotting-sur-
face on the other. At the beginning of each face on the other. At the beginning of each
week the leaflet of the previous week is re moved and used as a blotter.

## Hardware.

SAW-SET.-J. F. Dorman, East Tallassee, Ala. The inventor's object is to provide a saw-set arranged to permit of accurately set-
ting a large number of teeth in a short time ting 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 $t$ remain perfectly set without danger of spring ing back.

## Machines and Mechanical Devices.

WASHING-MACHINE.-R. J. the invention has reference to improvements in machines for washing clothing, the object being to provide a washing-machine of simple and novel construction that may sely smatise, yet capable of rapidly paratively smal size, yet capable of
MECHANICAL MOVEMENT.-F. N. Liv ingston, Ballard, Wash. The invention per tains 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. A. Mer licke, Hanley, Assiniboia, Canada. The ob ject of this invention is to produce a simple
mechanism which will enable charges or accounts of different kinds to be easily computed. It is especiaily applicable in comuse in various connections for the general pur poses stated, and when in the latter the char acter of the scales and tables would be changed to suit part
quirements.
WASHING AND SCOURING MACHINE.R. F. E. Okrassa, Antigua, Guatemala. The object of this invention which relates to the
washing and scouring of coffee, grain, and washing and scouring of coffee, grabb, and like materials, is to provide a scrubbing-ma
chine arranged to insure a quick and thorough washing and scouring of the coffee, grain, o other material and a complete separation of liquid used as a washing medium.
hat-machine.-C. P. Wildenberg, New York, N. Y. This machine is for use in sup porting wires and shaping them in order to
produce frames for ladies' hats. Principal ob jects of the invention are the provision of means whereby the several wires forming part of a hat-frame can be conveniently and
accurately supported by means of hooks even

When the frame is of unusual shape, having rer conventis, and the fram machine.

## Railways and Their Accessories.

AIR-SUPPLY APPARATUS FOR AIR-BRAKES.-E. B. Allen, Louisville, Ky. This ts standard pressure at all times, but also utilizes the power in compressing this auxiliary harge as a means for stopping the train hus securing a double effect, since the power used to oppose the stopping of the train in ne instance operates through the boosterpump of the apparatus to supplement or re-
inforce the pressure in the reservoir for subsequent
brakes.
SLACK-ADJUSTER. - C. O. Anderson, Omaha, Neb. In this case the invention
lates to means for automatically taking lack which may occur in the brake-rigging or other pars, due to wear on the brakeshoe or other parts. The apparatus may be used
on either hand or power brakes and will not interfere with the employment of the usual anually-operated sfack adjustment.
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 "sumder cars." Where such cars are operated on or step to be turned up out of the way, this tep being usually mounted upon pivots or hinge connections for this purpose. The object is to provide simple means for supporting folded position out of the way.
Door-FaStener.-J. P. Snelgrove, nta, Ga. The fastener is especially adapt or car-doors, although it may be used upon any class of sliding doors. It obviates the necessity of cleating the door and when sealed It is easily assembled, and broaking the seal. be easily replaced. There is but little liability f breakage from swinging outward of the directed outward which stress the latch is especially designed to resist.

Pertaining to Vehicles.
WAGON-WHEEL.-I. T. Hurd, Lansing, Mich. The effect aimed at in this invention wheel more especially designed for use on road and farm wagons and arranged to combine strength with durability and to allow forming
the wheel of wood with a hub and tire of

```
etal
```

Note.-Copies of any of these patents will Pe furnished by Munn \& Co. for ten cents each. the invention, and date of this paper., title

Business and Personal ©Jants.
READ THIS COLUMN CAREFDLLY.-You will consecutive order. If you manufacture these good


Marine Iron Works. Chicago. Catalogue free.
Innuiry No. 8185.--For manufacturers
ton-fock " for the wall-paper printing trade.
" U. S." Metal Polish. Indianapolis. Samples free. Inguiry No. 8186.-For makers of styptic pencil Handle \& Spo
Inquiry No. $818 \%$.- Wanted, the address of the
Cown Cap Co. manutaturers of the metal cap for
bottles : also for makers of similar bottle I sell patents. To huy, or baving one to sell. write Inquiry No. 8188. - Wanted, the name and ad
dress of a second-band dealer in screw and drop pres WANID. Architectural draughtsman, capable de Noner. State experience an
lnquiry No. 8189.-For makers of mail order Metal Novelty Works Co., manufacturers of all kinds of light Metal Goods, Dies and Metal Stampings our Inquiry No. 81:90.-For makers of or
For Sale.-Water front in New York harbor wit

 The celebrated "Hornsby-A kroyd" Patent Safety Oit Eng ine is buitt by the De La Vergne Machine Company.
Foot of East 138th Street, New York. Inquiry No. 8192.-Wanted, address of Follett
Sieel Numbering Machine Co. Manufacturers of patent articles, dies, metal Mmping, screw machine work, hardware specialties Manufacturing Company, 18 South Canal St., Chicago. Inquiry
No. 8193.-For machines for wall paper
Automobile experts are in constant demand at bigh alaries. Our seven weeks' course is the mest thorongh
nd practical. ftting men to drive, handle and repar and practical. itting men to drive, handle and repair
Day and evening classes. Special course for owners
New York School of Automobile Engineers, 146 West New York School of
56 th Street, New Yor









(10032) W. J. B. asks: Is it preter able to have all south poles on one side and all
north poles on the other to work independent north poles on the other to work independen
armatures suspended above them, or will alter nate polarity, north and south, give as good difults? A. We do not see that it makes an
diference in which way the several armature are connected up so long as several armature by itself, as your sketch shows that it does It is more symmetrical to connect all the same, and then in any repair you will know
from what point each wire comes. t pont ach wire comes
(10033) F. S. asks: 1. Is there any destructive local action in a storage battery the plates? A. No. 2. Will the presence of a
saturated wooden diaphragm increase or di saturated wooden diaphragm increase or through a liquid? A. It increases the inter
(10034) B. W. L. asks: If a bridged, grounded telephone wire came in contact with one wire of a lighting circuit carrying 5,000 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 2. If one wire of this lighting line were to would be the probable effect? A. If these call out the fire department immediately. In the description which you give of what took place in your case, we judge that there was no came into contact at all. The swinging of the light wire near your telephone wire would produce all the phenomena you describe ; while the fact that you could get no circuit from the
ground showed that the wire had not broken and fallen anywhere along the line.
(10035) J. R. H. asks: Do you have a Supplement that treats of intercommunica-
ing telephones and setting up and construction ting telephones and setting up and construction
of same? A. We have no article giving pracof same? A. We have no article giving prac
tical details on this point. You can find var lous systems described in Miller's "A
Telephone Practice," price $\$ 3$ by mail.

INDEX OF INVENTIONS For which Letters Patent of the

## United States were Issued

for the Week Ending June 19, 1906.

## AND EACH BEARINGTHATDATE



