Business and Persenal Wants.


 MUNN de CO.

 Aoros.-Duryea Power Co.. Reading, Pa.
 Ronarr No. 6128.- For parties Perforated
Co., $\begin{array}{r}\text { Cicicago. }\end{array}$.

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Handle t Spoke Mchy. ©ber Mfg. Ce. 10 Bell St.
Inguiry No. 6130.- For makers of outits for plat If it is a paper tube we cal
Company, Fill River, Mass.

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Inquiry No. 6132. - For makers of wire nail-mak
Agents wanted to sell the Ryede puzzle. Sample by
mail for 10. Ryede Specialty Work's, Rochester, N. Y.
Monirv. No. 6133.-For makers, of pucket electric
hights, having the liquid system, not dry battery. If you wish to buy patints on uventions or sell
them, write Chas. A. Scott, 340 Cutler Building, Roch

Induiry No. 6134 .-For manufacturers of Ger-
mill silver seamless hard-drawn tubing $313-16$ inches
O. $\begin{aligned} & \text {. }\end{aligned}$
We manufacture anything in metal. Patented articles, metal stamping, dies, screw mach. wor
Metal Novelty Works, 43 Cathil Street, Chicago.
Ing uiry No. 613.5
Weight Stereoiypes."
Patented inventions of brass, bronze, compisition or aluminum construction placed on market. W
American Brass Foundry Co., Hyde Park, Mass. Inquiry No. 6, 136. - For the address of the "Union The celebrated "Hornsby-Akrogd" Patent Safety Oi
Enyine is built by the De La Vergne Machine Cemonany Foot of East 13sth Street. New York.
Inquiry No. G1 37.-For manufacturers of ma-
chinces for maling mandolin and guiar buss struss. Manufacturers of patent articies, dies, metal stamp ing, screw machine work, hardware specialtien, machin
ery and toois. Quadriga Manufacturing Company, outh Canal Street. Cbicage.
Inquiry No. 613 S .-For the present address of
the Tuwer Coupier Co.
Adding, multiolying and dividing machine, all in one. !
Inquiry No. 6139.-For parties banding mall
order novelties. WANTED.-Address of the makers of latest machines
for curling hair for uyholstery purposes. C. Nolan tion for curling hair for upholstery purpos
Sons, Devenshire Strcet, Cork, Ireland.
 Fon Sup..--iatent on wood split pulley can be
bouglit at a bargain. There is noue better manufactured. Address F.J. Ranford, 22 State St., Seneca Falis.
Inquiry No. 6141. - For manufacturers of cast

Complete Machine Shop for Sale.-For manufactur-
ng small articles and novelties. With stock of good-
selling novelties and all orders. Price \$2.30. A. Wegselling novelties and all orders.
Inguiry No. 614:-Wanted, to purchase or iease
oll royalty a mood patent, preterubly in tne nardware
line.

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New York. Free on application.
Inguiry No. $\mathbf{\text { O14:3. }}$ - For parties to make soft rub-
ber goods, such astoy ballouns.
Inquiry No. 6144.-For makers of plate mirrors
suitabie for mintels.
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ton candy-making machine.
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chimueys used in zairead signals.
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handles of knives; either cut in leugus or whole
horns.

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slat au\& wire fencing.
Inquiry, No. 61.50.--For makers of the "Black
Diam-nd, incandescent gas mantles.
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plies for making tishing poles, as split bamboo, hillulies,
Inquiry No. 6152.- For manufacturers of wood
working machinery.
Inquiry Nu. 6153.-For manufact.urers of boril.
ers, en ines,
wire, curd, sockets, etc,
d. Induriry wagous, 6154.-For parties who build motor

Inquiry No. 61.55.-For prices and particulars of
steam stamp quartz millu.
Tuquiry No. G1.56.-For dealers in perforated zinc
and course and fine woven wire screens.


## Inquiry iron work.





##  <br> Notes "Lide andQueries.

INTIS TO CORRESPONDENTS.
Names and Address must accompany all letters or
no attention vill bee paid thereto. This is for
our information and not for publication.
and high amperage results. When the car is
at the place tapped, the voltage is highest, and at the place tapped, the voltage is highest, and
diminishes as the car proceeds from that point also when the car stops the current stops, thus causing a current which is not continual. Wil passing the current through a storage battery current between the "governor"" and dynamo A. You say you find a drop of voltage of twen
$t y$ when a wire is taken from a street rail direct to the dynamo, which is highest when the car is at the place tapped. The voltage i then highest because the resistance in ohms is
less from the trolley wire to the dynamo. As the car goes away further from the dynamo,
the resistance increases from the trolley to the dynamo, and thus the drop of voltage from the place tapped to the dynamo is less. There are to the dynamo, except for the drop between the dynamo and the trolley along the plus wire which is usually the upper wire, on which the trolley bears. When the car stops, current is shut off, and of course none shows on the wire you have cut in between the rail and the dy-
namo. Passing the current through a storage namo. Passing the current through a storage battery is charged from the return current of a trolle

## NEW BOOKS, ETC.

Hanbsook of Gasoline Automobiles Association of Licensed Automobile
Manufacturers. New York. Pp. 83.
It is seldom that we review a catalogue, but in the present instance it is merited, as it illus which are manufactured and imported unde the license of the Association of Licensed Auto mobile Manufacturers, under the basic paten granted to George B. Selden. The catalogu is beautifully gotten up, and shows a ver large number of types of machines. It is an
admirable book of reference, and should be in admirable book of reference, and should be the posse
mobiling.
Gold Assaying. By H. Joshua Phillips, New York: D. Van Nostrand Corn
pany, 1904. 8vo.; pp. 138. Price

## $\$ 2.50$.

This work is a practical handbook for th use of chemists and assayists. It contains, be
sides opening chapters on the natural appear sides opening chapters on the natural appear
ance and forms of gold, its physical character and chemical properties, and the sampling of gold ore, articles on the assay furnace, cupe lation, parting, scorification, the assay of bullion, and assays in cyanidation, chlorina tion, and amalga tion processes, which are
all thoroughly described. A valuable appendix all thoroughly described. A valuable appendix
contains much information about the coinag contains much information about the coinag gold produced by various well-known mining gold produced by various well-known mining
districts. A very complete index aids in making the book useful
M
M.E., and Karel By James Henry
cago: Laird \& Lee, 1904. 12mo.; pp
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This volume is intended as a practical hand book for students, apprentices, and electrica
engineers. Besides the principles and formu las governing electricity, which, by the way, are presented in as simple a manner as pos sible, the book contains many practical ex amples and their answers, from the study of which much useful knowledge may be obtained. The scope of the book is considerable, dealing
as it does in the first place with static elecas it does in the first place with static elec
tricity and ending with X-rays, wireless tele tricity and ending with X-rays, wireless tele
graphy, and radium. Resides having this wid graphy, and radium. Besides having this wide
scope, it also deals with electrical machinery, scope, it also deals with electrical machinery,
batteries, wiring, etc., in a very practical man ner.

A Textbook on Ceramic Calculations By W. Jackson, A.R. C.S. New York Longmans, Green \& Co., 1904. 12mo. pp. 67. Price, $\$$
This book is not a practical work on pottery and porcelain manufacture, but is given up like, which will be found of use to all students and workers in clay, pottery, and porcelain Among other things, it treats of the loss of weight of potter's materia! on drying and firing; of the fitness of ground materials; the calculation of formute of compounds from the compounding of mixtures of definite composition from substances of known chemical composition, and the application of this knowl edge to the complete synthesis of mixtures of known formulæ from raw materials of give and the methods of calculation based upon it as well as the application of such analysis $t$. the synthesis of bodies, is another of the subjects dealt with.
Talking Machines and Records. By S man, 1904. 12mo. pp. 86 ; 40 illus man, 1904. 12 mo ; pp.
trations. Price, 60 cents.
This book is the latest addition to the series on electric and scientific subjects from th S. R. Bottone. It describes tlie principles and ducing machines, and also gives practical di
phonograph. A brief historical outline of the work of different experimenters, which has led included.

INDEX OF INVENTIONS
For which Letters Patent of the United States were Issued for the Week Ending October 25, 1904
AND EACHBEARINGTHATDATE






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