## Business and Personal Wuants <br> 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 aidress of the party desiring the information. In address of the party desiring the information. In nuery case it is neessary to give the number of

Marine Iron Works. Chicago. Catalogue free.
Inguiry No. 7893.-Wanted, an electric wo
flowr suracer.

Inquiry रo. \%894.-For manufacturers of a de
Handle \& Spoke Mch马. Ober Mfg. Co., 10 Bell St

late to be carried 24 mile.
WANTED.-Partner for new invented current motor
Inquiry No. 7896. - Wanted, channeling machin
ery, for use in siate quarries ${ }^{\prime}$ elameling ovens, to ery, for use in siate quartes;
enamel shate slabs jelectric, hand, pertable drilling ma
chines; also air drills. 1 sell patents. To buy, or baving one to sell, write Inquiry No. 7897.- Wanted, makers
machinery for sodu and mineral waters.
The celebrated " Hornsby-Akroyd" Patent Safety $\bullet$, Inquiry No $\mathbf{N B 9 S}$.-Wanted, makers of patent
rinlroad spikes or similar devices for fastening rails to

Fine Lithograpted Letter Heads, Bill Heads, Enve-
opes and Checks, gives standing. Stilwell, lopes and
Inquiry No. 7899.-Wanted, a fexible shaft fitted
witt and anaprer disk or cunter, for cleaning huls of
row-baats and motor launches.
WANTED.-To arrange with manufacturer for intro-
duction of new bicycle. References. trand Galveston, 'Cex
Inguiry No. P900
or featuler ventiaturs.
Sell or lease on royalty. Patented November 21, 19C5 Claude Siebring, George, Iowa
Inquiry No. 7901.- Wanted, the name and ad-
dress of the mautucturers of " reap hooks." Metal Novelty Works Co., manufacturers of all kind
of liglt Metal Goodis. Dies and Metal Stampings our Specialty. 43-47 S. Canal Street, Chicago.
Innuiry No. 7902.-Wanted, manufacturers
Manufacturers of patent articles, dies, meta
stampmg, screw machine work, hardware specialties machinery tools, and wood fiber products. Quadriga
Manufacturing Company, 18 South Canal St., Chicago. Inquiry
No. 7903 .- Wanted, a small press for ex WanNED.-To secure a party to manufacture a
Ratchet Drill. Address Drill, Box 773 , New York. Inquiry No. 790 . - Wanted, the name and
dress of the nianuarciurer ont the white metal tinisb
casting, which requires no fling or other tlisising.

## errous metals. Without oxidation. No picklling or

 $\underset{N}{\text { cleaning rex }}$ Rork.Inquiry No. Y905. - For manufacturers of mag.
nets suitable tor water meters. Inquiry No. Y906.-For manufacturers of small
turbines, such as tue frencis or cionval type. Inquiry No. 7 907.-For parties engaged in install-

Inquiry
machinery.
Inquiry No. 9 910. - Wanted, complete mints for
copper and silver coins in difrerent sizes.
 Inquiry No. 7912.-Wanted, cotton-spinning ma-
chinery for hand, foot and steam power.

## NEW BOOKS, ETC

Forty Years an Advertising Agent. 1865-1905. By George Presbury Row
ell. New York: Printers' Ink Pub lishing Company, 1906. 12mo,; pp. 517. Price, $\$ 2$.

Mr. George P. Rowell is the dean of adver-
tising agents, and his work has left an indelible impress upon the great business of publicity. Daring a long and diversified life,
Mr. Rowell has seen vast agencies grow up from a single desk in a tiny office. While the earlier agents handled hundreds, the great agents of to-day handle appropriations which
sometimes amount to a million dollars annu ally. The whole history of the advertising field is admirably portrayed in the fifty-two chapters, or papers, which make up the contents of this volume, which is illustrated with a number of interesting portraits and groups.
The book will prove of great interest, even to hose who are not especially interested in a vertising proper. So
How to Mix Paints. By G. Godfrey. Chi
cago: Press of the Western Painter,
1905. 12 mo ; pp. 72. Price, 50 cents. This is a practical treatise prepared for the
eeds of the präctical painter. It is intended to aid the painteif in mixing, his colors when he desires to match f , \%ivili shade. Chapter
X on "Color Harmony" contains much that is helpful to the house painter and decorator.
Diagnosis on the Eye. By Henry EdPublishing Company, 1905, 8vo Cosmos
156. Price, $\$ 2$.


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 etc., sent sree Patents procured thrMunn \& Co. receive free notice in the

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octave below midede C , divide these numbers by tiplying octaves up and down are found hy mul-
sucesively
tor
for
upper octaves
 INDEX OF INVENTIONS For which Letters Patent of the United States were Issued for the Week Ending February 13, 1906.



inquiring of different ones around here, and
ithey seem to know nothing about them, and so
i was advised to write to you. A. We are not
aware this there is

able to give you the figures on the subject, since

## (9892) F. A. asks concerning a spring

 which broke while immersed in hydrochloric acid in order to clean it of rust. A. There is no probable connection between the action ofthe acid and the breaking of a spring, unless the spring has been in the acid for a very long
time, in which case the acid would be detime, in which case the acid would be de-
stroyed, and the liquid would be a solution of iron by forming oxide of iron. Hydrochloric acid has only a slow action upon iron, and
loses its acid qualities by contact with iron It is impossible to break a spring by simple
contact with an acid. Why then did the spring break? If you will refer to Kent's "EngiElastic Limit to Endurance under Repeated Slastic Limit to Endurance under Repeated to Repeated Shocks, the true explanation will e found. A bar of metal will break by the the breaking strength of the metal. Thus a bar of steel which would hold 49 tons per square inch broke by the application of 28.6 tons per square inch without shock for 170,000 times. The same result follows repeated shocks to a murst the Thus the firing of a gun will finally burst the gun, although the gun easily with-
stood the pressure at first. The bending of a spring is a similar case to the repeated application and removal of a weight. By and by
he spring breaks. The spring in your case had been usea for fifteen years, under strain
all the time. It is not necessary to suppose any occult power of an cid, which it does not
possess, to see why the spring broke. (9893) A. M. G. asks: Please state in Notes and Queries column the number of viorations per second for each note of thie octave
in the natural key from middle $C$ of an organ piano, for the first octave both above and itch as used in this country. A. The Interational Standard Pitch is for A above middle

