

?
நardware specialtics CONTRACT MANUFACTURERS Difficult Parts or 30 Finished Articles NION MFG. \& SPECIALTY CO.,

Automobile Engine

by selining our cele brated goods. 25x to 308 C mmission.
BEST AND Most
ECONOMICALT
B3C.
 The Great American Tea
31\& 33 Vesey St. New
P. O. Box
Now. York.

## Telephones



## movement to call, nothing to turn back. Saves balf your time without using unre

 liable automatic attachments. Only onemovablepart, nothing to get out of order The only Central Battery und Central Coil System in use. Especially desirable
Cor business plants of five to twelv stations, radi
guaranteed.
Offlce of Scientific American equipped.
SPENCER ELECTRICAL CO. 163 Greenwich St., New York.


Registers an accurate account of work done on print
ing presses, grain tallies, weighing, measuring and
ither automatic machines. Counts up to 1,000 ono and repeats automatically. sim ple, accurate, durable. Sp


」UST PUBLISMED
Practical Pointers For Patentees

THE SALE OF PATENTS An Elucidatiun of the Best Methoas En ployed by the
Most Successful Invento rsin Manding Th eir Inventions.

TCloth. Price, $\mathbf{\$ 1 . 0 0}$.

 some of the most successtul Inventors of the day.
ht gives exactly that information and arvice about
handing patent that hould be opossessed by every In-
ventor who would achieve success by his ingenuity and
 ventions. It containin no odvertisementre of om ony dear in in-
tion and is published in the interests of the Pstentee alone, and its onlvo object is to tive him such practical
information and adice as will enable him to incelligent
it handle his patent successfally, economically and It fives avast amount of valuable information alon,


## MUNN \& CO

Publishers, $\quad 361$ Broadway, New York.

## r. $\overbrace{\substack{\text { Sole } \\ \text { To }}}$

.

## 




## LABELS.















## PRINTS.





Velocity Diagrams. Their Construc-
Clon and Their Uses. By Charles
Tilliam MacCord, A.M., Sc.D. New
York: John Wiley \& Sons. London:
Chapman \& Hall, Ltd. 1901. 8vo.
Chapman \& Hall, Ltd. 1901. 8vo
Pp. iii-116. Price $\$ 1.50$.
series of lectures forming a part of the course
Technology, and explains the principles of the
common and convenient graphic processes of determining the direction and velocity of the
motion of a point, whether that motion motion of a point, whether that motion be
constant or variable. The book is intended for those who may wish to study the subject
without an instructor, as well as for classroom use. The figures, eighty-three in num-
ber, are very clear and the description of the processes lucid, rendering the work valuable

Electric Power Tringmission. A Practical Treatise for Practical Men.
By Louis Bell, Ph.D. New York: Electrical World and Engineer. 1901 8vo. Pp. 632.
electrical much, if sot more, attention from electrical engineers than any other branch of applied
electrical science. We have seen enormous plants at Niagara. Massena, and sault ste Marie grow up with startling rapidity. So tar has attempted to deal with this very important subject in an exhaustive way. The third edimodifications made in the accepted systems of power transmission during the last five practice seem to be in praiseworthy accord That the work issues from the press of the Electrlcal World and Engineer is in it
sufficlent commendation of its appearance.


IF YOU SHOOT A RIFLE,


## PAINI tur PIEASES 

Dixon's Silica:Griphite Paint Lasts four times as long as other paints
and always looks well, as is ivever faces.
Non-poisonous,
or bad odor, causes no colic JOSEPH DIXON CRUCIBLE CO

FLY PAPERS. - FORMULAS FOR



ARTESIAN






American Yacht and Motor Company,
Buillers from Row Baat toa Yacht Cherokee and DeKalb Streets, ST. LOUIS, MO. Howard Two and Four Cycle MARINE
AUTOMOBILE MOTORS Write for Cat.
Grant Ferris Co

A TRUSGOTT BOAT
Simple, Safe, Reliable, Speedy.

 Truscott Boat Mfg: Cos

## Throat Troubles


are common at this season of the year. Most of
them arisefrom the presene of irritating germs in
the

"HYDROZONE"
 appli ed. To demonstrace its erffiesnocy send loaily.
to cover postage and a free bottle will be sent you-
sufficient for a cure.

PROF. CHARLES MARCHAND,


