
 DEPARTURE ard one the BELLS ${ }^{\circ}$

THE ORNAMENTAL IRON INDUS



Automatic Circular Rib - Knitting Machinery
for all kinds of Ribbed Goods, Vests, Pants,
Sleeves, Sweaters, Tights, Skirts, and every
thing SNYDER \& FISHER,

## Metal Planers and enenera Line of machine <br> Hill, Clarke \& Co <br> 160 Oliver Street BOSTON

 16 So. Canal Street

USE GRINDSTONES


The cleveland stone co THE MANUFACTURE OF MATCHES




Durable-Easily Applied



 NOW READY! Seventeenth Edition of Experimental Science


Menise and EnLarged.





 MUNN \& CO., Publishers, Office of the sCIINTIFIC AMERICAN,


VEIOX PAPER $5=$ GLOSSY or MATT. No dun or rain waitier to in iterfere mith your work.

 Nepera Chemical Co. CROOKES TUEES IN ROENTGEN'S
 +....



Hahn's Improved Watchman's Time Detector

\& DYNAMOS \& ELECTRIIC MOTOOS


SMALL MOTORS for All Purposes.


| DEAFNESS <br> and HEAD NOISES relieved by using Wilson's Common Sense Ear Drums New scientific invention, entirely different tion from all other devices. Assist the deaf <br>  T $\qquad$ |
| :---: |
|  |  |
|  |  |
|  |  |



 Shorthand by Mail Thoroushlyty taukt hy reat


 WANTED Cimpetent mechancian to take onntol-
 WANTED Rytimates for mantuaturing in airge
 DRAUGHTINGG or Rivering in qhid spy

 CONTRACTS WANTED.




INCUBATOR.
 A. H. Williams, 61 Race St., Bristol, Conn. CONSULTATON INVENTORS.
 volaet w. mason \& co
PRICTION POLLEPSS, CLDTCHES, and ELEVATORS
ARBORUNDUME
the fading of pigments.-a pa-

A Valuable Book


12,500 Receipts. 00 Pages. Price $\$ 5$.



 workers in all parts of the world; the information siven
weing of the tighest vaie. arranged and condensed in
concise form convenient for ready use. Aimost every inguiry that can be tbought of. relating
to formulz used in the various manufacturing industherruction for for working many different processes in
Those who are engaged in any branch of indutry
Thoshl will find in this book much that is of practical vaiue in their respective callings.
Those $w h o$ are in search of independent business or


MUNN \& Con ., Publishers,
scientific america office, ${ }^{11}$ Brentwat, New Yorb.


