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Marine Iron Works．chicaso．Catalogue free．

For logsting engines．J． J ．Mundy，Nemark，N．J．J．
Ingury No．
N397．－Wanted，machine for mak．
 Inauiry No．8398．－For manutacturers of floor


Sawmill machinery and outtits manufactured by the Inquiry No．\＄400．－Wanted，
fapor bead serews．
 Inpuniry No．Sidind：－Wanted，makers of distilling
aparatus，of ill Metal Novelts Works Co．，manufacturers of all kinds
of light Metal Goods，Dies and Metal Stampings our specialty．43－47 S．Canal Street，Chicago．

 Koerting gas engine and producer．Ice machines．Built
by De La Vergne Mch．Co．Fu．E．138th St．，N．Y．C．


 ryaniry No．8404．－Wanted，a machine for bark．
 Induiry Nors oftei－Wanted，the address of the






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## Names and Address must accompany all letters

 ou attention will be paid thereto．This is foront for publication．
Referencés to former articles or answers should give date of paper and page or number of question
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repeated；correspendents will bear in nind tha some answers require not a littlo research，and
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marked or labeled．
$(10174)$ would like to know，through the columns of your valuable paper，how a boiler of 15 horse
power，that is only in use a bout three months during a year，should be left．Should it b filled with wokestack b
smoke
laid up for a season should be thoroughly cleaned on the inside，filled with water with steam on，so as to be full of hot water that
has been boiled，up to the safety valve．The flues and fire surface of the boiler should then part where such lodge．Then close fire doors， part where such lodge． With this treatment laid－up boilers do no
rust inside or outside．It is the moist ai drawn through a laid－up boiler that does dam－ age by rust
（10175）C．F．C．asks：1．Are lantern slides（which are printed by contact）more
sensitive to the light than carbon velox？For instance，a plate that printed a good clear
picture on carbon velox in 15 seconds，being held 12 inches from a large size house lamp time to print it．slide take longer or shorter always slow plates，much less sensitive than quired． 2 Have you a Supphenent telling quired．2．Have you a Supplement telling how to make lantern slides？A．We can send twenty－five cents，and Elmendorf＇s＂How mail．We can send you Supplement 483， 517 724，1062，1082，on slide making，for ten cents amera．Also，how to make a lantern slide camera for making slides from $4 \times 5$ negatives
A．Supplement 625 tells how to make a bel



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工円ARIN WATCEI E円卫AIRING


In Elmendorf＇s book there is a chapter on working with a camera in slide making． 4. Is there a magic lantern made which takes standard slides and burns oil for the light？ Is this done，and are the pictures clear when cannot be enlarged more than four feet in di－ ameter with oil lamps since the light becomes so faint by diffusing it over so large a screen．
（10176）E．E．S．asks：1．What is the best way to mount a map on a muslin backing， and would a window shade be suitable？A． on a table．Then wet the map thoroughly and apply the paste evenly over the entire back of the map，being very careful to bring it to the edges of the paper．Now lay the sheet on upengoth and smooth it out and rub it down
the cloth so as to remove air bubbles and upon the cloth so as to remove air bubbles and
bring it into contact with the cloth．A roller or squeegee such as is used for mounting photo－ graphs will enable you to do the job much
better．2．How can I produce on brass the better．2．How can I produce on brass the
bronze－like finish used on the instruments of bronze－like finish used on the instruments of
surveyors and engineers？A．Bronzing of brass surveyors and engineers？A．Bronzing of brass
by dipping in a solution of 5 drachms of per－ chloride of iron to 1 pint of water，until the water，dry，and lacquer with a thin shellac and alcohol varnish

INDEX OF INVENTIONS
For which Letters Patent of the
United States were Issued
for the Week Ending
October 2， 1906.
 Abrasive apparatus，O．C．Wysong．．．．．．．．833，114
Advertising device，automaton，J．R．Cine．83，
Agitating and leaching tank，combined，E．
可新


