## RECENT PATENT DECISION.





CeO. P. Rowell © Co.,
The New York Advertising gents, have the monopoly space and looation
in many hundred news inpers, and know by their oxperience just where to


## Facts for the Ladies.

Miss Chamberian, or
 average of f100,000 per day, and 12,500 per hour.

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Pattern Letters for Machinists, Molders, an Inventors, to letThe paper that meets the eye of manufacturers throughout the United States-Boston Bulletin, 8400 a year. Advertisements 17 c .a a line. Wanted.-A large Power Press, or Shears, strong enough to cut $23 /$ to 3 inch bar iron. Needed more for strength than beauty.
dress Henry $\mathbf{D}$ iston
India-rubber articles of every description, for Inventors and others, furnished by W. G. Vermilye, 6 Park Place, New York.
LaDow's Patent Combined Hay Tedder and Rake, cheapest and best in use. For Rights, Machines, Circulars, etc., address C. La $\mathbf{D}$ ow,
So. Galway, N. Y. So. Gal way, N. Y
For the best India-rubber Weather Strip ever invented, ad-- age Lathes for Broom th. St. Johns, ,.B. Patented in United stae. Price 820 . With attachment for mill work, price 830 . Also, Wood-turning Lathes. A. S. Henderer \& Co., Binghamton, N. Y.
Pump Boring.-For machine to do the best work with the least Soap Stone Packing, all sizes, in large or small quantities. Greene, Tweed \& Co., 10 Park Plac
Walrus Leather, for Polishing Steel and Plated Ware, at reduced rates. Greene, Tweed \& Co., 10 Park Place.
A complete Paper Collar Factory for sale cheap. Capacity 80,000 per day, realy for imm atiate operation. Priee 85,000 ; terms easy.
. spply to B. R. Western, RJom 23, 37 Park Row, सew York.
Bok \& Bennett are Dealers in Patents, and Introducers of Patented Articles. Omtce
Company, 2588 Broad way.
See advertisement of L. \& J. W. Feuchtwanger, Chemists,N.Y. Improved mode of Graining Wood, pat. July 5, '70, by J. J. Callow,Cleveland,O. Sec illustrated S.A., Dec. 17, TVo. Send stamp for circular. All parties wanting a water wheel will learn something of interest by addressing P. H. Wait, Sa
Hudson River Champion Turbine.
Ashcroft's Low Water Detector, $\$ 15$; thousands in use; 17 year's experience. Can be applied for 81. Send for circular. E. H. Self-testing Steam Gage. There's a difference between a chro-
 83.50. Stephens' Patent Combination Rule, Level, Square, Plumb, Bevel, etc. See advertisement in unother column. Agents wanted American Boiler Powder Co., Box 315, Pittsburgh, Pa., make the only safe, sure, and cheap remedy for "Scaly Boilers." Orders solicited. Belting that is Belting.-Always send for the Best Philadelphia Oal-Tanned, to C. w. Arny, Manufacturer, 311 Cherry st., Phil'a. E. IIoward \& Co., Boston, make the best Stem-winding Watch in the country. Ask for it at all the dealers. Offlee 15 Maiden Lane, N. Y . For mining, wrecking, pumping, drainage, and irrigating maThe best place to get Working Models and parts is at T. B. Jeffery's, 160 South Water st., Chicago.
Brown's Coalyard Quarry \& Contractors' Apparatus for hoisting Improved Foot Lathes. Many a reader of this paper has one of them. Selling $n$ all parts of the country, Canada, Europe, etc.
. vid Rolled-Shafting,piston rods,pump rods,Collins pat.double compression couplings, manutactured by Junes \& Laughlins, Pittsburgh,Pa. Drawing Materials, 8 swiss instruments, and Rubber Triangles and Curves Diamonds and Carbon turned and shaped for Philosophical and Mechanical purposes, also Glazier's Diamonds, manutactured and re
set ny J. ickinsun, 64 Nassau st., New Tork. Peck's Patent Drop Press. For circulars address the sole manufacturers, Milo, Peck \&Co., New Haven, Ct.
For Solid Wrought.iron Beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for ithograph, etc.
For the lasit Solf-regulating Windmill in the world, to pump water for resilences, farms, city builings, draina33, and irrigation, ad
dress Con. Winduill Co. 5 Colleve Place, New York. Che Merriman Bolt Cutter-the best made.
lars. H. B. Brown \& Co., Fair Haven, Conn.
Caft's Portable HotAir Vaporand Shower Bathing Appar Address Portable Eath Co., Saz Harbor, N. Y. (Send for Circular.) (ilynn's Anti-Incrustator for Steam Boilers-The only reliable preventive. No foaming, and does not attack metals of boilers. Price 2 cents per lb. C. D. Fredricks, 587 Broad way, New York.
For Fruit-Can Tools,Presses,Dies for all Metals, apply to Bliss a Wililiams, successor to May \& \& liss, 118,122 , and 122 Plymouth st., Brook-
iyn, N.Y. Send for catalogue. Presses, Dies, and Tinners' Tools. Conor \& Mays, late Mays \& Bliss, to 8 Water st., opposite Fulton Ferry, Brookiyn, N.Y. 2d hand Worthington, Wood ward and Novelty Pumps, Engines 25 to 100 H.P., 60 Horse Loc. Botler. W. D.Andrews \& Bro., 414 Water st,,N.Y. Agents wanted, to sell the Star Bevel. It supersedes the old English and American Cotton Machinery and Yarns, Beam To Ascertain where there will be a demand for new machinery or manuracturers' supplies read Boston Commercial Bulletin's Manuractur-
wh News of the United States.
Terms 8400 a yeart

## Answers to Correspomdents.




Imitation of Rosewood.-I give, in reply to query of H. G. W.,the following recipe: Boil half a pound logwood in three pints water, tilit the mixturn is of a a very yarrr redid add hatif an ounce salto of tartar.
while boiling hot, stain your wood with two or three coats, talaing care that it nearly dries betwy wood with two or three coats, taris as is used for graining, form streaks with the following black stain: Boil one pound logwood in four cuarts w. ter: add a double handulu of walnutp eel
or shells; boilit up again take out the chips, add a pint best vinegar, and It will be fit foruse; apply while hot. All this, if carefully executed, will produce very nearly the appearance of dark rosewood. -J. B., Jr., of produc
Ohio.
Hardening Tallow.-I have used the following misture with success: To one pound tallow take one fourth of a pound common
rosin; melt them together, and mold the candles the usual way. This will
 vast improvement upon the common tallow cande, in all respects oxcept
color.-F, S. $\mathrm{E}, \mathrm{P}$. Sll ver Solder.-Silver coin, 17 pwts. : copper, 2 pwts., 12 grains; zinc, 2 pwts; melt the silver and copper; arter cooling a little
drop in the zinc; then heat again - J. G. M., of Mass.
A. J. S.-If you are using suitable timber for plow handles, and steam them till they are equally heated and softened throughout, you
should have no trouble in bending them. Of course, we suppose you bend them before dressing them Int oshape. To bend well, the wood should be
heated nearly to the boiling point, and thoroughly saturated with steam. F. M. C., of Iowa.-When you ask why the boiler, the explosion of which you describe, followed the head which was blown out, you ask a question we cannot answer. The theory that the stcam raises a
boiler like a balloon, is absurd. There are many inexplicable things con. stantilise a balion, is absurd. There are many inexplicable things con-
stantly occurring in connection with boiler explosions. There was probably some local cause for the boiler and head both flying in the same direc-
tion, that close examination by an expert might discover. tion, that cose examination by an expert might acover
M. E., of Mass.-The distance between London Bridge and Dover, England, is 88 miles. The 7.25 A. . . train runs through, without
stopping, in one hour fifty five minutes. From Euston Station, London, stopping, in one hour fifty.five minutes. From Easton Station, London,
to Rugby, 82 miles, the run is made in two hours. We have no record of any faster railway running than the above.
R. H., of N. Y.-The theory you advacce, that boilers when at rest may be heated higher than the boiling point under a given pressure,
and suddenly release their steam with explosive force when staited. is not new, and has had, in times past, many able supporters. It is plausible, but is doubtless only one of a series of causes, which com bine together in
fuch
E. P. T., of Ark.-A hollow shaft, of any size, is not so strong as a solid one of the eame diameter, though stronger in proportion to it
weight. The device you propusc, is not patentable.
L. S., of Ohio.-We know of no coating that can be applied to metal pipes which wili increase their power to conduct haat.
G. C. B., of Tenn.-We do not desire at present to open a discussion in our columns, of the subject of "s suaring the circle." No good.
can come of it, and we consider our space of more value for other sub. can com
jects.
Z. A. S., of N. J.-The carbon plate, in a carbon battery, is B. B. R., of $W_{i}, r,-$ Arsenic is applied to organic substahces, as the slins of animals, etc, as a preserving tent onls.
H. A., of Va.-The water mark in paper, is produced by wires ralsed above the fine woven wre surface of the mold or web upon which
the pulp is received to form the shect.-L.

## Queriss.

[We present herevoith a series or inquiries embracing a variety of topics of greater or less general interest. The quest ons are simple, it is true, but we
prefer to elcit practical answers. from our readers, ana hopopeto be able to makethis column of inpuiries and answers a popular and usejul feature ot the paper. 1
1.-Bluing and Browning Iron and Steel.-Will some one be kind enough to tell me how I can give the polished surface of iron a
nice brown or blue appearance, such as is found on gun barrels? 2.-A amantine candles.-I have read your articles in dhe Thousads would use candes in preference to such oils, did the know how to make them. A recipe for the domestic manufacture of adamantine candles, in a cheap and simple manner,
value to the community. Can some one give it?
3.-Railway Curves.-What is the shortest and sharpest curve on a railway of 4 feet $83 / 2$ inch gage, over which an engine and tender can pass with safety at full speed? And also what is the sharpest curve
over which they could pass at any low speed? Of course I wish these curve to be indicate by their radil.-F. W. G.
4.-Cements.-What is the best cement for the brass tops or kerosene
R. X. T.
5.-Silvered Surfaces.-IIow can I keep the surfaces of ch sulphide of silver, and yet not obscure the grad ation marks ?- $\mathbf{E}$. $G$.
6.-Tempering Cold Chisels.-Will some one give me irections for tempering cold chisels made from old flles?
7.-Chasers.-Can a very fine true thread, say twentv to the inch, be cut on brass screws one quarter inch in diameter? I want the
threads to be perfectly true, and to avoid, if fossible, the slower process of cutting with an engine lathe. I require to use a great many of them, and 8.-Blanks for Toothed Wheels.-Can blanks for small hole in the center of the blank? I am now doing this with two different des, and at two operations. Can it not be done br a single punch ?-B. B. s. 9.-Artificial Incubation.-I wish some reader of the Scientific American, familiarwith this subject, would give me a brief de-
scription of an apparatus which will hatch, say, 2,000 eggs at once by artificial heat. I should prefer steam heat, but do not make it an essential.

