he knows just what he is about. Never use anything but the very first quality of Babbitt-poor Babbitt for planer cylinders is poor stuff. After you have turned up your cylinder true and balanced perfectly, you will have no trouble about your planer heating unless one screw lifts faster than the other and so binds in the box. This $\mathbf{i}_{\mathbb{L}}$ not likely to happen, however. \mathbf{I} run a dimension planer for the B. & A. R. R. at Springfield, Mass., 21 days, with a Nathan & Dreyfus No. 9 self-feeding oiler. No other oiler used. This was a little extra run, but from 17 to 20 days was a common run, and this planer hardly stopped half an hour in the day, and only to sharpen knives. We do not use selfoilers here, using tallow almost entirely, and considerably raw tallow, especially in side cutter spindles. This should be very nice, however, but it gives excellent results. We run two double surfacing matchers and a 26inch double surfacer constantly, with a spare surfacer occasionally, but constantly, often right through the noon hour, stopping perhaps five minutes at a time to sharpen once in 1% or 2 hours.

- (18) E. C. R. asks for a preparation that will remove the oxide from the surface of finished cast iron after it has been exposed to heat, without hurting the surface of the iron. A. Try sulphuric acid, 1 part; water, 12 or 15 parts,
- (19) A. F. G. writes: I have for years been using a Kidder electro-magnetic machine for curative purposes, run with a sulphuric acid battery, one part acid to sixteen of water. The glass cell has a capacity of four pints. When the battery plates are immersed they occupy the space of one pint, leaving three pints available fluid. The two zinc plates are 31/2×7 inches by 1/2 inch thick, the middle plate of compressed carbon, 31/2×6 inches, all suspended from a yoke running at the top of the cell. My carbon plate becoming impaired, I have followed the recommendations of the SCIENTIFIC, as well as some local electricians, by attempting the use of carefully made plates from gas carbon, and have in every instance signally failed of success, the latter giving off but a feeble current, while that from the artificial carbon plate (half the size) is powerful. These results, while it is known that gas carbon has no superior as a conductor outside the fluid, is to myself as well as others an unsolved mystery. It has been suggested that possibly the carbon contained traces of iron, but the very process of its formation forbids that idea, as well as tests that have been made with a powerfulmagnet applied to the pulverized substance. A. It is possible your carbon is too dense. Try annealing it by heating it to a dark red and allowing it to cool slowly. 2. Give information as to the process of making the best artificial or compressed carbons. A. Reduce clean pieces of coke to powder. Mix intimately two parts of the powder with one part of finely pow dered caking coal. Ram the mixture into an iron mould. Close the mould nearly tight. Expose to the heat of a furnace until the gas is driven from the mixture, then remove it from the furnace and allow the carbon to cool in the mould. $\,$ It will be found too porous for use, but it may berendered more den; a by dipping it in a sirup consisting of sngar dissolved in water, and subjecting it again to the heat of the furnace in a closed vessel. This operation is repeated until the required density is obtained.
- (20) E. M. L. asks for a receipt for a harmless preparation for preventing the hair from turning gray. A. 7. Cologne water, 2 oz.; cantharides tinct., drms.; oils of rosemary and lavender, each 10 drops. 2. Vinegar of cantharides, 14 oz.; cologne water, 1 oz.; rose water, 1 oz. See Hygiene of the Hair, by Professor Erasmus Wilson, Scientific American Supplement No. 102,
- (21) W. S. S. asks for a receipt for annealing steel so that it will be as soft as copper. A. We do not think steel can be made as soft as copper, but you may make it quite soft by heating it to a blood red, then plunging it into powdered charcoal, allowing it to cool there. To avoid accidents from fire, the charcoal should be kept in a well-covered iron vessel, and the vessel should be kept in a safe place.
- one over the other; paint the ends well with borax ground up with water on a ground glass or slate; bind the ends firmly together with iron wire; coat some small pieces of silver solder with borax, and place them on and near the joint; put behind the joint a piece of pumice stone and with a blow pipe fiame heat the joint until the solder melts.
- (23) W. S. A. gives the following method of making a call for a string telephone. Suspend the telephones at each end, so that the line string (the string connecting the diaphragms) may be kept tightened, and free to transmit vibrations from either end. Now rub some resin on the line string at each end; and when you wish to signal the other, rub along the resined part of the string, and quite a loud noise will be heard in the telephones at each end, sufficient to be heard anywhere in the room. It is on the principle of the boy's "rooster," consisting of a resined string passed through one end of a tin can. Petroleum may be used instead of resin with equally good results. This kind of call does away with electric bells and other contrivances for acoustic lines. If ferrotype plate and fine wire take the place of the parchment diaphragm and strings, the same call may be used by fixing to the wire a piece of resined string, the call being effected as before by rubbing on the string.
- (24) A. B. D. writes: I have been experi menting for more than a year past with electricity, and especially with the Bell telephone, in connection with Professor Hughes' microphone. One day while experimeuting I took the diaphragm off one of my telephones and attached the wires from my battery (consisting of three gravity cells), and I was surprised to find the magnet no stronger; the battery seemingly did not affect it; but, on reversing the poles of the battery it was much stronger, the poles of the battery having been working in opposition to the poles of the permanent magnet. On connecting the telephone with the microphone I

connected properly. I have never heard this fact spoken of before, and it may be of interest to readers of your valuable paper.

- (25) M. L. S. asks what will remove from the hands the stains of a red ink known commercially as "eocene?" It is sold as a dry powder, and is mixed with water before using. It is used in paper ruling. A. Where the stain cannot be readily removed by means of soap and water and pumice stone, moisten them with dilute hydrochloric acid, then with solution of bleaching powder (called chloride of lime), and after a few moments rinse in running water. The unpleasant odor left by the bleaching powder may be destroyed by rinsing the hands with dilute aqueous solution of hyposulphite of soda (photographer's "hypo."
- (26) J. T. asks: Can you give a recipe for a cement that will mend permanently leather belting, and matcher when we get in a tight spot. We don't run by simply shaving off the edges and bringing together as a splice? A. Try the following: Melt together in an iron vessel gutta percha and pitch in about equal parts. Dry the parts with a hot iron, and while hot apply the cement and press the parts firmly together until set.
 - (27) R. C. asks for a process for hardening plaster of Paris, to imitate marble for table tops. A. Mix the plaster with alum water instead of pure water. This plaster will require a longer time to set, but will eventually become extremely hard.
 - (28) J. W. L. asks: What is the best spray to be used in "fixing" crayon drawings? A. A dilute solution of gum arabic, about one part to 50 of water, is
 - (29) D. O. B. asks for a receipt for a paint or varnish for smoke stack. A. Common asphaltum varnish is used for this purpose
 - (30) W. W. A. asks: Is it true that alcohol can be produced from smoke by the addition of an ingredient or two? A. We are not aware that alcohol has been obtained from smoke. Wood spirit or methylic alcohol is obtained by the destructive distillation of wood. It resembles ordinary alcohol in its solvent properties, and for some purposes is used as a substitute for it, but in other respects differs widely from that

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated:

H. W. J.-1 and 2. Fluorspar. 3. Mica schist. 4 Pyrolusite, manganese oxide. 5. Fassite, a variety of amphibole. 6. Natrolite, not found in Louisiana. 7. White fluorite. 8. Galena, a valuable ore of lead. 9. Wad or bag manganese, contains cobalt. 10. A furnace slag, silicate of lime, magnesia, and alumina.-C. C. H. -It is menacconite, specular iron ore, called also micaceous hematite.

COMMUNICATIONS RECEIVED,

On Wells, By S. T. T. On Optical Delusion. By P. H. Our Globe Hollow. By J. A. On the Structure of the Moon and Telescope Objec-

On Jupiter's Spot. By J. H. E. On Labor Question. By A. St. C. On Fire Escapes. By H. P. C. On Curious Fish. By E. B. On Great Fires. By W. L. K.

[OFFICIAL.]

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Type writing machine, C. L. Driesslein Umbrella, E. J. Forbes Vapor burner, H. Wellington Varnish, R. M. Breinig Vehicle sand band, J. F. Wise Vehicle, spring, J. S. Corban Veneer blank for trays and boxes, C. G. Udell Ventilating appar. for mines, Kay & Rockefe Vials and other bottles, apparatus for forming necks, shoulders, and lips of, E. Connolly Wagon brake, D. Gibbens Wagon running gear, A. Coffers Wash boiler, T. W. Kendall Washing machine, M. Swan Washing machine, pounder, Anderson & Farl Waste pipes, device for removing obstruct from, T. B. Armstead Watch, stem winding, P. H. Gontard Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson Water wheel, D. H. Anderson.	220, 963 220, 276 220, 452 220, 458 220, 458 220, 458 220, 317 11er. 220, 317 11er. 220, 388 220, 458 220, 459 220, 219 220, 288 220, 459 220, 459 220, 459 220, 459 220, 457 220, 219 220, 457 220, 259 230 220, 259 230 220, 233 220, 228 220, 238 220, 238 220, 238 220, 238 220, 238 220, 238 220, 248 220, 428 220, 428 220, 428 220, 428 220, 428 220, 428 220, 449 220, 449
Type writing machine, C. L. Driesslein Umbrella, E. J. Forbes Vapor burner, H. Wellington Varnish, R. M. Breinig Vehicle sand band, J. F. Wise Vehicle, spring, J. S. Corban Veneer blank for trays and boxes, C. G. Udell Ventilating appar. for mines, Kay & Rockefe Vials and other bottles, apparatus for forming necks, shoulders, and lips of, E. Connolly Wagon brake, D. Gibbens Wagon running gear, A. Coffers Wash boiler, T. W. Kendall Washing machine, M. Swan. Washing machine, G. IL. Williams Washing machine, pounder, Anderson & Farl Waste pipes, device for removing obstruct from, T. B. Armstead Water wheel, D. H. Anderson Water wheel, D. H. Anderson Watering stock, apparatus for, P. Rausch Water wheel, D. H. Anderson Watering stock, apparatus for, P. Rausch Weather strip, Flesher & Gilman Whiffletree clip, J. H. Harford Windlass and derrick for boring artesian other wells, B. F. Mull Windmill, A. W. Chilcott Zinc, making chloride of, Wahl & Eltonhead TRADE MARKS. Chili sauce, Tobin & Wiekes Cigars, Toledo & Barranco	220,963 220,276 220,452 220,452 220,458 220,458 220,317 Iller: 220,317 220,317 220,317 220,317 220,317 220,317 220,317 220,317 220,319 220,319 220,319 220,419 220,419 220,419 220,419 220,419 220,419 220,423 220,219 220,219 220,219 220,330 220,330 220,212 220,423 220,233 anapp 220,233 anapp 220,233 anapp 220,233 anapp 220,233 and 220,414
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Planter, seed, J. C. Barlow 220,268
Plow, A. W. Tucker 220,367
Plow, double-acting reversible gang, W. H. Foye. 220,367
Plow, hillside, Wlard & Bullock. 220,453
Plow point, Brown & Pentreath 220,270
Plow, shovel, W. D. Davidson. 220,352
Plow, wheel, A. C. Rosencranz. 220,452
Plow, wheel, A. C. Rosencranz. 220,252
Printing and recording device, ticket, B. C. Pole. 220,366
Printing on fabrics, W. Rumney. 220,259
Privy and other vaults, A. W. J. Mason. 220,289
Priley fastener, E. W. Blackhall. 220,215
Ramle machinery, A. Angell, East Orange, N. J. Ramie machinery, A. Angell, East Orange, N. J. Refrigerating and ventilating apparatus, B. F. Teal et al.,

 Pump, J. R. Cushier
 220,350

 Quadrants, cover for, W. H. Boyd
 220,269

 Philadelphia, Pa.
Riveting machine, J. F. Allen, New York city.
Rotary engine, W. N. De Groat et al. Knoxville, Tenn. Rowing apparatus, J. M. Caffin, Boston, Mass. Railway track gauge, F. S. Prendergast. 220,415 Railways, automatic gripe for rope, H. S. Grace. 220,283 Sausage machinery, J. G. Baker, Philadelphia, Pa Sewing machine, J. McAllister, Chicago, Ill. Sewing machine, J. H. Brown, Brooklyn, N. Y. Razor and knife, N. B. Slayton 220,438
Reaper and harvester, Desparois & Christian 220,354 Telegraph cable, P. Arbogast et al., Pittsburg, Pa. Telegraph wires, W. E. Prall et al., New York city. Relay, self-adjusting, P. S. Bates...... 220,333 Time register, W. B. Fowle, Newton, Mass Wheelbarrow. A. W. Melville, New York city. White lead, G. T. Lewis, Philadelphia, Pa.
Wire, barbed, manufacture of, F. Billings, Cleveland, O. Sad iron, M. F. Potts (r) 8.925 Wire, barbed, manufacture of, F. Bill Saddle, harness, E. R. Cahoone 220.273 Wire rope, splicing, W. P. Healey, — Safe, provision, M. Lee 220,245 Writing tablet, H. W. Holly, Brookly Writing tablet, H. W. Holly, Brooklyn, N. Y.