

ment of ephelis, and always greatly ameliorating lentigo, even if it does not entirely decolorize the patches in the latter case.

(6508) H. N. M. says: How can I ink typewriter ribbons? A. Take vaseline (petrolatum) of high boiling point, melt it on a water bath or slow fire, and incorporate by constant stirring as much lamp black or powdered drop black as it will take up without becoming granular.

Aniline black . . . . . 1/2 oz. Pure alcohol . . . . . 15 " Concentrated glycerine . . . . . 15 "

(6509) W. B., Jr. says: Will you please tell how I can make a gallon of perfumed violet writing ink?

(6510) A. B. D. asks: 1. Why does the whistle of a locomotive in motion sometimes sound higher than it really is?

(6511) Gravity asks: What will prevent the formation of sulphate of zinc on the outside of the jars of a gravity telegraph battery?

(6512) W. G. R. asks whether there is a dynamo yet made that has no revolving wire. One without a commutator of any kind and producing constant current (not alternating) of high or low voltage.

(6513) G. S., Jr. writes: I have got some armature punchings for the sewing machine motor described in SUPPLEMENT, No. 759.

(6514) P. C. T. asks: Can you give the size of German silver wire that will equal in resistance 5 strands of No. 20 German silver?

(6515) H. R. O. asks: When the commutator of a dynamo is turned off there is almost always one segment worn deeper than the rest.

(6516) W. W. M. writes: I send a sample of a deposit which we think to be sulphur. It must have been deposited on the night of the 19th of March, as it was not noticed until the 20th, when it was seen to be accumulating at the edges of ponds and all other bodies of water throughout this section.

pine. The pine trees flower in spring, and this accounts for the presence of the spores as a sulphur-like deposit in your neighborhood every year at that season.

(6517) A. A. S. asks how to figure the horse power of gas and gasoline engines. A. The proper way to obtain the mean engine pressure is with an indicator and card register in the same manner as with the steam engine.

pressure x area x stroke x 1/2 revolution = h. p. 33,000

If the explosion is at every revolution, the full number must be put in the formula. If there is cushioning or compression of the air and gas in the cylinder, it must be deducted from the mean pressure.

(6518) R. B. D. writes: For the past two days we have experienced a succession of heavy vibrations with a simultaneous roar as of a distant explosion.

(6519) F. W. S. asks: What preparation would you recommend to be applied to the bright steel and nickel parts of a bicycle to prevent rust?

(6520) H. P. says: Please give formula for best black varnish for small wooden articles, and the best method of tempering small wire spiral springs.

Naples asphaltum . . . . . 50 lb. Dark gum anime . . . . . 8 "

Fuse, add 12 gallons linseed oil; boil, then add of dark gum amber, 10 pounds, previously fused and boiled in 2 gallons linseed oil; next add q. s. of driers and thin with oil of turpentine.

(6521) F. E. H. writes: Will you please give me information on the following subject? I have a spring of water that furnishes 21 cubic feet per minute with a fall of 100 feet in a distance of 300 feet.

(6522) E. J. P. asks: About how much coal does one of the great ocean steamers like the City of Paris burn in twenty-four hours, at the usual five and a half or six day rate of speed?

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted April 30, 1895, AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.] Addressing machine, F. D. Belknap . . . . . 538,403 Advertising and educational systems, coin-controlled apparatus for, J. S. Barcus . . . . . 538,636

Table listing inventions and their patent numbers. Includes: Air brakes, automatic lock for stop cocks of Tower & Rich . . . . . 538,299 Alarm, See Fire alarm . . . . . Alarm system, high pressure, E. G. Shortt . . . . . 538,548 Amalgamator, G. W. Down . . . . . 538,642 Animal trap, L. F. Dagman . . . . . 538,241

Table listing inventions and their patent numbers. Includes: Fencing, barbed, T. V. Ailla . . . . . 538,401 File, detachable, Chas. C. H. Stoeiting . . . . . 538,605 File, document, J. M. Bulkeley . . . . . 538,600 File, saw, A. Weed . . . . . 538,396