

Graphite Lubricating Co., Jersey City, N. J. Graphite bushings and bearings, requiring no grease or oil.

Quints' patent automatic steam engine governor. Correspondence solicited from manufacturers of throttle governor engines.

Catarrah Cured. A clergyman, after years of suffering from that loathsome disease, catarrh, and vainly trying every known remedy, at last found a prescription which completely cured and saved him from death.

Lathes for cutting irregular forms a specialty. See ad. p. 399.

NEW BOOKS AND PUBLICATIONS. A PRACTICAL TREATISE ON ANIMAL AND VEGETABLE FATS AND OILS. By William T. Brannt.

We have here one of the most useful, as well as the most creditable, contributions which have ever been made to the technical literature of this country.

Notes & Queries

HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters, or no attention will be paid thereto. This is for our information, and not for publication.

(1) A. L. J. asks: 1. What will take rust from finely polished steel, such as drawing instruments, etc., without scratching them?

(2) W. H. H. asks: 1. Are pumpkins a good milk-producing food for cows, and have pumpkin seed a tendency to dry up milch cows?

(3) J. E. desires a receipt for making a good blue black copying ink. Take of Aleppo galls, bruised, 9 ounces, bruised cloves 2 drachms, cold water 80 ounces, sulphate of iron 3 ounces, sulphuric acid 70 minims, sulphate of indigo, thin paste, 4 drachms.

(4) J. A. P.—We are not acquainted with the special variety of cough drops mentioned by you, but we would suggest the following as an excellent article: Tincture of squills 2 ounces, camphorated tincture of opium and tincture of tolu, of each 1/4 ounce, wine of ipecac 1/2 ounce, oil of wintergreen 4 drops, sassafras 3 drops, and of anise seed oil, 2 drops.

(5) S. O. H. asks whether the killing of alligators is an industry, if the hides are tanned and used to any great extent, and what per cent of so-called alligator hides are genuine.

(6) T. M. S. asks: 1. What can I put on my watch face to make it luminous, so that the time can be read in the dark? A. Coat it with luminous paint.

(7) J. H. D. asks for a receipt to remove paint from a wood carving without damaging the wood, as burning or scraping would ruin it.

(8) E. P. M. asks: What amount of oxygen, hydrogen, and carbon is there in steel? A. Steel contains no oxygen, save in the rust there may be upon the outside, and only a possibility of a minute portion of hydrogen.

(9) W. C. P. asks: 1. Does paint or black japan injure the sound of a whistle or gong? A. It would probably change the tone.

(10) R. R. W. writes: I wish to move a large building over ice which freezes from 2 to 3 1/2 feet. Will it be safe? A. Ice 8 inches thick will support heavy wagons and artillery.

(11) H. R. E. writes: I have a fine Arkansas oil stone which refuses to work properly after several years of constant use.

(12) C. H. S. asks (1) how to make a strong joint with glue. A. Use new glue, and in applying first fill the pores of the wood with thin glue and let it dry; then clean off, and glue it at the joint with strong glue.

(13) C. A. D., Virginus, Col., writes: I would like to know the relative speed of an air compressor in high and low altitudes.

should run, at a speed of 45 revolutions per m. for the volume of compressed air as computed for the sea level.

(14) G. H. W. asks in what way he can make a battery to run a single bell 2 1/2 inches diameter, by using a cast iron box 5 1/2 inches wide, 8 1/4 inches deep, and 1 1/4 inches long.

TO INVENTORS.

An experience of forty 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 December 13, 1887, AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

- Adjustable chair, E. Pyncheon..... 374,628
Ammonia from manure, etc., obtaining, W. F. Nast..... 374,618
Armature, H. B. Slater..... 374,711

- Coal elevator, T. G. Goodfellow..... 374,906
Coffee pot, W. A. Kraz..... 374,603
Coin operated lock, P. Everett..... 374,785