

hang up to dry. Dissolve the aniline color in photograp...
2. Red or blue aniline will form clear solutions, while the green solution will require filtering.

(6752) N. S. C. says: Can you send me a recipe for a tonic which will cause a growth of hair on the head or face? A. Salicylic Hair Tonic: Salicylic acid... 50 grm.

(6753) L. A. M. asks how to mix lime to whitewash brick walls, inside and outside walls, so that the lime will adhere. A. A good durable whitewash is made as follows: Take 1/2 bushel of freshly burnt lime...

(6754) E. L. F. asks. How fast will a one half horse power steam engine run a 12 foot boat and what size propeller will be needed? A. A 1/2 horse power engine should give a speed 6 to 7 miles in a 12 foot boat with good lines, with a 12 inch propeller.

(6755) D. D. asks for the size of boiler to work slide valve engine 1 1/4 inch stroke, 1 inch bore, for 1 1/2 hours at 50 pounds pressure. A. You will require a boiler rated at 1/4 horse power, or having 6 square feet of heating surface. See SCIENTIFIC AMERICAN SUPPLEMENT, No. 702, for illustrations of small safe boilers. 10 cents mailed.

(6756) J. A. H. asks: Can you give me the proportions of wooden patterns to make the following sizes of cast iron dumb bells: 25 lb., 50 lb. and 100 lb.? A. Make an accurate drawing of a longitudinal section of the dumb bell of the pattern that you desire to make, and as near the size as your judgment will allow, then compute the contents in cubic inches and multiply by 0.24 for pounds in the casting.

(6757) J. P. asks: 1. How can I muffle the exhaust of my gas engine so it will not make so much noise? I use the engine to run my buggy. A. You can make the exhaust nearly silent by connecting with an iron box or cylinder of three or four gallons capacity, with several diaphragms of 1/2 inch mesh wire cloth. 2. What causes the sharp snapping sound in gas engine cylinders which occurs every little while? A. The sharp snap is probably due to a miss fire, by which the second charge becomes stronger and makes a heavier explosion, making the engine jump. 3. What is meant by "machine sparking"? You used this term in speaking of the Benz motorcycle. A. The term sparking probably refers to the electric spark used for igniting the explosive mixture.

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. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

February 25, 1896,

AND EACH BEARING THAT DATE.

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

Table listing inventions and patent numbers, including 'Air compressing and storing apparatus, E. C. Nichols...', 'Alarm, See Fire and burglar alarm. Thermostat-actuated alarm...', 'Alternating motor, N. Tesla...', 'Annual trap, J. B. Perkins...', etc.

Table listing inventions and patent numbers (continued), including 'Blacking box, J. Stevenson...', 'Blind stop, C. W. Kall...', 'Boiler, Edgar...', 'Bottle, C. M. Freeman...', 'Bottle, cap to prevent refilling, J. J. Walsh...', etc.

Table listing inventions and patent numbers (continued), including 'Harvester, corn, W. W. Smith...', 'Harvester, cotton, G. H. Decker...', 'Harvester, cotton, C. H. Pickering...', etc.

Table listing inventions and patent numbers (continued), including 'Starbuck machine, collar and cuff, M. Collins...', 'Steam engine, T. P. Frosser...', 'Steam heater, antifreezing, W. Parrett...', 'Stone, artificial, E. C. Brice...', etc.

TRADE MARKS.

Table listing trade marks and patent numbers, including 'Antiseptics, food preservatives, and allied preparations, Patent Borax Company...', 'Baked cereal products, J. M. Rueth...', 'Bicycles, Jenkins Cycle Company...', etc.

DESIGNS.

Table listing designs and patent numbers, including 'Boiler, tubular steam, J. J. Hogan...', 'Bracket, D. C. Bowen...', 'Chair, C. Holsten...', etc.

A printed copy of the specification and drawing of any patent in the foregoing list, or of any patent in print issued since 1863, will be furnished from this office for 25 cents. In ordering please state the name and number of the patent desired, and remit to Munn & Co., 361 Broadway, New York.