

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 This is for our information, and not for publication.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) T. E. M. writes: Having occasion to use the following: R. Sodii borat. 5 ss. Sodii bicarb. 3 ss.

I was astonished at the bottle bursting with great force. No effervescence occurs until the glycerine is added, when it equals a Seidlitz powder solution.

(2) R. B. R. asks (1) a receipt for a strong glue or cement used in sticking the ends of the cylindrical small wooden boxes for pills and ointment, made use of in medical dispensaries.

(3) G. H. F. writes: 1. What is the method of refining kerosene oil? A. The different grades are separated by distillation, the lighter products coming over first, while the heavier ones come over later.

(4) J. M.—Wood engravings are made by first coating the wood with a white wash, and then drawing in freehand with pencil or brush directly on the wood the design which is wanted.

(5) C. G.—Both zinc sulphate and iron sulphate are soluble in water. A saturated solution is one in which it is impossible to dissolve any more of the sulphate.

(6) A. S. desires to know the method of preparing an insoluble cement from bichromate of potash and glue. A. In order to render glue insoluble in water, even hot water, it is only necessary, when dissolving the glue for use to add a little potassium bi-

chromate to the water and expose the glued part to the light. The proportion of bichromate will vary with circumstances; but for most purposes, about one-fiftieth of the amount of glue will suffice.

(7) E. B. writes: I am getting up a collection of different kinds of wood with the bark on. Can you tell me of any receipt to keep it in good condition, and also keep worms and bugs from destroying both wood and bark?

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted, July 21, 1885, AND EACH BEARING THAT DATE.

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

Table of inventions including Aerated beverages, apparatus for filling and siruping, J. McEwen. 322,738; Aeriform fluids, apparatus for mixing, Walworth & Seyter. 322,661; Agricultural machines, tooth securing device for, C. E. Stonesifer. 322,597.

Table of inventions including Child's chair, F. F. Parker. 322,472; Chuck, drill, F. De Forest. 322,807; Chuck, lathe, E. Pement. 322,636; Churn, C. Hanna. 322,445; Churn, J. G. Harris. 322,712.

Table of inventions including Hay loading and unloading apparatus, K. E. Lathrop. 322,618; Hay tedder, J. F. Winchell. 322,878; Heel blanks, applying top lifts to, F. F. Raymond, 2d. 322,561; Heel machine, J. Tingley. 322,761.

