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APPARATUS FOR THE MANUFACTURE OF ABSINTHE AND THE SCENTED SPIRITS.

This apparatus (*Pl. VIII*) is composed of the following parts:

- A, boiler [still] encased by wood and containing as double-boiler another vessel, which contains alcohol and the plants and seeds which are to be distilled.
- B, top or lid of the boiler.
- C, closure hatch, fastening and dismounting with the greatest simplicity to charge the boiler.
- C', closure hatch similar to the first, to discharge the plants after distillation.
- D, capital surmounting the boiler, connected to it by a ring and finished with an extension-piece carrying the alcoholic vapors to the coil.
- E, cooler.
- E', cooler outlet.
- F, colorator, like the boiler, provided with taps to fill up and empty this unit.
- G, pump connected firmly to the wall using the G' collars.
- H, piston rod [in this case, in a pushrod configuration].
- I, eccentric [cam].
- J, pulley.
- K, bearing supports.
- L, metal sump installed in the ground.
- M, suction pipe.
- M', suction pipe to the colorator. --- pg 414 ---
- N, three-way tap serving the suction pipe and making it possible for the pump to suction from the sump, be it the alcohol and water that one sends to the alembic, or the distilled product which is sent to the colorator, or finally making it possible to draw from the colorator the manufactured product to send to storage barrels.
- N', pipe used to draw off the colored product. [clearly connected to, or same as M']
- O, pipe for advance or dispatch.
- P, selection tap for pumping the liquid into the boiler to be distilled there, or into the colorator.
- P', pipe carrying the liquid to the colorator.
- P'', pipe carrying the liquid into the alembic.
- R, tap and pipe for pumping the manufactured product to storage barrels.
- S, funnel and pipe carrying the distilled products from the tank.
- T, principal steam supply pipe coming from a generator.
- U, steam bleed tap for [lit. *by*] the alembic.
- V, steam bleed tap for the colorator.

*Procedure for the apparatus.* – This apparatus draws its principal advantages from its great simplicity and from the small number parts which constitute its configuration. A pump, by its multiple functions, suffices to drive three different transfers, which are:

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- 1° The filling of boiler A with water and alcohol to be distilled;
- 2° The filling of the colorator F with the distilled product that has discharged through the funnel and pipe S;
- 3° The transfer [by suction pumping] of the product contained in colorator F to the storage barrels.

Here is how one operates this apparatus.

Having filled with water and alcohol, in determined proportions, the sump L, and having introduced through the upper opening of boiler A the plants necessary for the manufacture of the absinthe, --- pg 415 --- one starts the pump, after having opened the tap P'P' [*sic.*; it is evident however that flow is through tap P and pipe P"] immediately boiler A fills from the contents of L. When the sump is empty, one stops the action of the pump and one turns off tap U, and the [distilled] product soon runs out of the coil and falls into S and will again fill the sump L; but this time with spirits scented by the plants that one had put in the alembic. The liquid is clear and for the most part already has the qualities necessary for this liqueur; it remains to color it. For that, the pump, fulfilling its second function, draws [by suction] this liquid and sends it to the colorator F, which one took care beforehand to furnish with coloring plants in quantity proportional to that of the scented spirit which will be sent there. It is by passing through the tap P and pipe P' that the scented spirit, drawn from [sump] tank L and driven by the pump, arrives in the colorator. Lastly, after this final operation which finishes the fabrication of the absinthe, the pump fulfills its third function by suctioning through pipe N' the colored product contained in F, and pumping it through the tap and pipe R to the barrels intended to receive it.