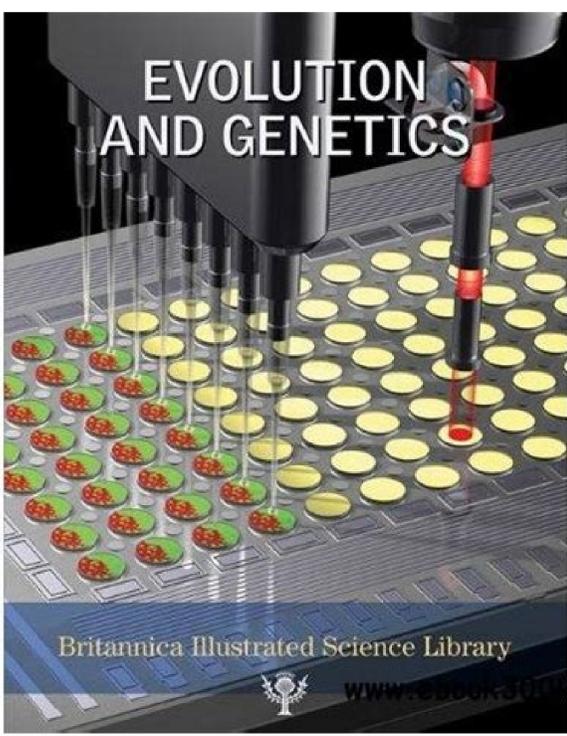


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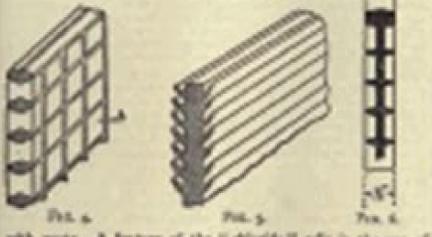
ACCUMULATOR

The figure of "pasted" type has been one in which the base was divided, but the general tendency is towards a solid type of the present time. There are many good cells, the value of all resting on the care exercised during the manufacture and also in the choice of pure materials. Increasing emphasis is laid on the purity of the water used to replace that lost by evaporation, distilled water generally being specified. The following descriptions will give a good idea of modern practice.

The "chloride cell" has a Pasteur positive with a pasted negative. For the positive a lead casting is made, about 0.4 inch thick pierced by a number of circular holes about half an inch in diameter. Into each of these holes is thrust a coil or canister of lead wire, which has been cut to the right length (equal to the thickness of the plate), then ribbed or grooved, and finally rolled into a rod. The rods are sufficient spring to fit themselves in the holes of the lead plate, but are kept in position by a hydraulic press. The plates are then "laminated" by passing a current for a long time. In a later process a lead of intermediate length (lead 6) is put in the plates, and increases the capacity and life by strengthening the mass without interfering with the diffusion of acid.

The negative plate was formerly obtained by reducing particles of lead chloride, but by a later mode of construction it is made by casting a grid with this vertical rib, connected horizontally by small bars of rectangular section. The bars on the two faces are "staggered," that is, those on one face are not opposite those on the other. The grid is passed with a lead oxide paste and otherwise treated; this is known as the "oxide" negative.

The larger sizes of negative plate are of a "box" type, formed by dividing together two grids and filling the intervening space



with paste. A feature of the "chloride" cells is the use of separators made of thin sheets of specially prepared wood. These prevent short circuits arising from scales of oxide material or from the formation of "trees" of lead which sometimes grow across in certain forms of battery.

The Tubular cell has positive laminated lead plates cast in one piece with a large surface of this vertical rib, laminated at intervals by horizontal ribs to give the plates strength without hindering in bulk diffusion (Fig. 2). The thickness of the plates is about 0.4 inch, and the developed surface is about eight times that of a flat plate of the same size. A thoroughly adherent and homogeneous coating of particles of lead is formed on this large surface by an improved

Pasteur process. The negative plate (Fig. 3) is composed of two grids riveted together to form a shallow box; the outer surfaces are smooth sheets pierced with many small holes. The space between them is intersected by ribs and pasted before casting. Many of the L.P.A. cells, made by the Electrical Power Storage Company, are of the Pasteur or pasted type, but the Pasteur formation is used for the positive of the lead cell. The paste for the positive plates is a solution of red lead with sulphuric acid; for the negative plates, it is saturated for red lead. Figs. 4 and

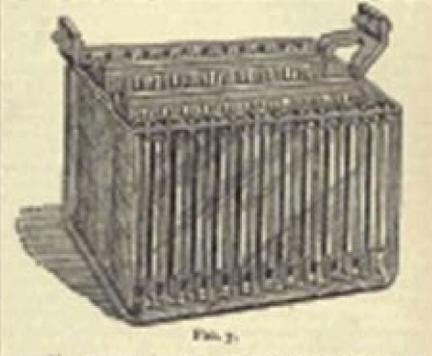


Fig. 5 roughly represent the grids employed for the negative and positive plates respectively of a type used for lighting. Fig. 6 is the cross section of the casting used for the Pasteur positive of the larger cells for rapid discharge. Fine indentations on the side expose a large surface. Fig. 7 shows a complex coil.

The Harz cell, as used for lighting, has combination of the Pasteur and Pasteur (pasted) types. The plates being by side legs on glass data, and are separated by three rows of glass tubes (about 1/2 inch diameter (Fig. 8)). The tubes are in grooved tank wood blocks placed at the bottom of the glass boxes. The blocks also serve as base for a skeleton framework of the same material which surrounds and supports the section. Of course the wood has to be specially treated to withstand the acid. A special non-corrosive terminal is used. A curved lead chain the top ends of adjacent cells together, being in a corresponding square hole in the legs, and thus increasing the contact area. The positive and negative tapes being different, a cell cannot be connected up in the wrong way.

In America, in addition to some of the cells already described, there are types which are not found in England. Two may be described. The Gould cell is of the Pasteur type. A special sheet is made to reduce lead and other deleterious action by coating with perfectly homogeneous plates. They are formed from sheet lead blocks by suitable machines, which gradually raise the surface into a series of ribs and grooves. The sides and middle of the block are left unattached and supply surface to distribute the current over the surface of the plate. The grooves are very fine, and when the active material is formed in them by electro-chemical action, they hold it very securely.

The Hatch cell has its positive enclosed in an envelope. A very shallow porous tray (made of lead and alloy) is filled with



Fig. 4: A technical diagram of a tubular negative plate, showing a grid structure with a central tube and a cross-section view.

Fig. 5: A technical diagram of a tubular negative plate, showing a grid structure with a central tube and a cross-section view.

Fig. 6: A technical diagram of a tubular negative plate, showing a grid structure with a central tube and a cross-section view.

Fig. 7: A technical diagram of a tubular negative plate, showing a grid structure with a central tube and a cross-section view.

Fig. 8: A technical diagram of a tubular negative plate, showing a grid structure with a central tube and a cross-section view.

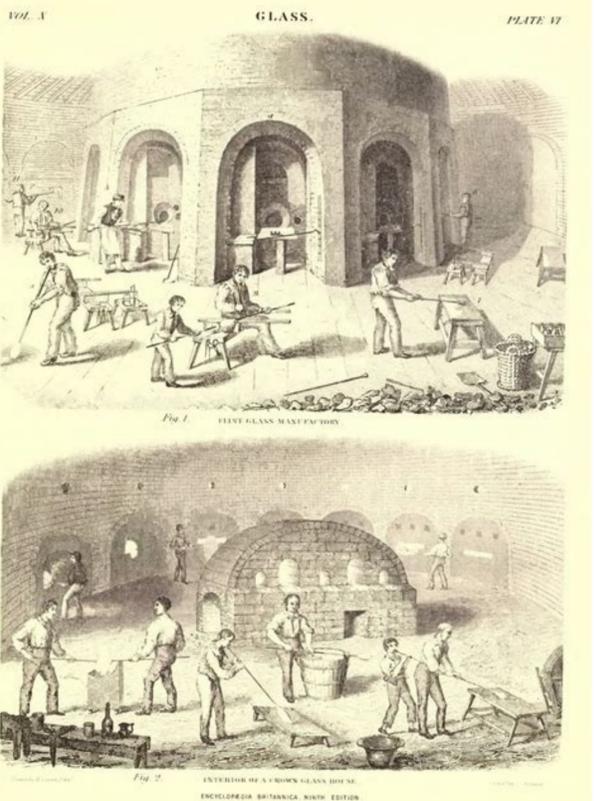


Fig. 1. INTERIOR OF A GLASS MANUFACTORY. Fig. 2. INTERIOR OF A CROWN GLASS HOUSE.

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