#### Egyptians First People To Make Glass

(Continued from last week)

had lost their fortunes in the Kev olution became glass-makers because, in France as in Venice, a person who was a glass-maker retained his noble standing.

The French made mirrors and some very fine old stained glass. Thevart, a Frenchman, rediscovered the art of casting plate glass, and secured for France the monopoly on that product for one hundred

The English, also learned the art of glass-making in time; but for many years they made very poor glass. The English were forced, be cause of the lack of wood, to find a new kind of melting pot for their glass; in this way they made heavy glass which they called "Chrystal Glass." This glass was very beautiful and was soon used for making many things. Among these were crystal glass mirrors The glass was pure white flint.

Later, the English became more skilled in the art of glass-making and by the time Queen Victoria came to the throne they were decorating their theatres with glass chandeliers which had heavy sparkling prisms dangling from them. In 1851, James Paxton, an Englishman made for the first international exhibit a crystal palace with a big glass foundation in it.

Perhaps the most natural look ing of all glass articles were the flowers and animals made by the Bohemians, Rudolph and Leopold Blaschka. A collection of flowers and plants made by the Blaschkas is in the Botanical department of the Harvard University. The flowers are so perfectly made that one cannot tell them from real ones. Now we come to the manufacture

of glass. Sheet glass from which our blown glass is made, is composed of a mixture of red lead and the finest white beach sand. The sand is sifted through closely woven cloths until it is smooth and very

fine before it is used. After the batch is mixed it is heated to a given temperature so

The furnaces in which the batch below the working holes are the great clay pots of molten batch. placed in a rack with other sheets These pots are very easily broken. Crude oil is used for heating the furnaces in the east; but in the west natural gas is used and the batch is often melted in tanks instead of pots.

To make blown glass, balls of molten glass are gathered on the end of a long iron blow-pipe.

As soon as a ball of red-hot glass is collected on the end of a blowpipe, it is rushed off to the blower before it cools. The blower blows in the smaller end of the pipe with all his strength, and the glass im-Then the blower flattens its base on a table topped with sheet iron. A short iron rod is next fastened to be adjusted to any thickness. the bottom of the article being made so that the blower can hold From the casting table the iron it. After this is done, the blowpipe is detached. The blower then sits down in a backless chair which has long, flat metal covered arms at either side, where he rolls the iron rod with its plastic material back and forth to shape it. He then cuts the top the shape he wants it, depending entirely on his eye for the outline. If the glass becomes hard before the article is finished, a boy takes it on a wooden fork and carries it off to a small furnace where it is reheated. Then it is taken back to the blower and finished. Next it is taken to a kiln where it is baked for three days. This process prevents the glass from breaking so easily. Most dishes are made in this way. Molded dishes are first blown as nearly the correct size as possible, then put into an iron mould and pressed into the desired shape.

Window glass is made in much the same way as dishes. It is first blown into a long cylinder, Next the cylinders are opened. This is done in two ways. The end of those made of thin glass is put into the furnace and at the same time air is forced inside through the blowpipe, the air expands and bursts the cylinder open at its weakest end. By placing this opening down-

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them at this point. When air is powdered emery stone and water. with the scissors.

The cylinder is next laid upon a wooden rest and is detached pads, from the pipe by placing a bit of point along inside the cylinner.

The glass then goes to the flattener. First it is warmed in the flattener's furnace, then it is put on the flattening stone, which is covered with a large sheet of glass. that it will be less likely to break Here is is smothed with a block the clay melting pots, then it is of wood until it becomes flat. This put into the clay pots and melted. done, the flattening stone is moved ing January. on wheels to a cooler part of the is melted each have twelve open- furnace, and the sheet of glass is ings. Within the furnaces and just moved to a cooling stone. When it is cool enough it is removed and

Plate glass is made out of a different kind of sand from that used for sheet glass and it is not blown at all. The pots of molten material are first taken from the furnaces and carried on trucks to an iron casting table There they are lifted by a crane, suspended above the table, then tilted over and the glass is poured out. The instant the material is on the table, a cast iron roller is passed back and forth over it, spreading it to uniform thickness and flattening it at the same time. mediately begins to take form. The thickness of the glass is determined by the strips of iron on which the roller moves. These can

> goes to the annealing ovens. It comes out of these rough and ir- Next Door to Brown Furniregular. This is called rough plate glass.

If polished plate glass is to be made the rough plate must be

ward it is widened to the diameter ground down first with sand and necessary. The thicker cylinders are water and then ground smoother LAWS. opened by fastening a lump of still with a coarse emery stone and not metal at one end, this weakens water; next it is ground with forced into the cylinder it breaks After that comes the smoothing open at the weak point. The open- process. This is done with a finer ing is enlarged by cutting it round sort of emery and water. Last of for State Representative for Colall the sheet is polished with rough timbia county (20th district) on or red oxide, between moving felt the Republican ticket at the Pri-

Cut glass is made of the same cold steel against the rart of the material as plate glass. The design glass that still clings to the blow- to be cut is outlined on the article pipe. The small end is then taken in white, then the cutter places off by winding a thread of not the design to be rut against an glass around it and applying a cold emery wheel which grinds out the iron at any point the thread covers grooves and figures and makes the They are now ready to be opened. pattern. After the design have been This is done by drawing a diamond cut on the emery wheel, the rough edges are smoothed off on a much finer grained stone.

Glass-making has been an imand will continue to be so in the ty and the state.

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promise to administer the office as efficiently and economically as possible and to cooperate with the law enforcement officials to the best of my ability. I am a registered republican and property owner in Columbia county.

(signed) P. A. DIXON. (Paid Advertisement)

For County Shariff Ira E. McIntire

I hereby announce my candidacy for Columbia county sheriff on the republican ticket at the primary election May 18, this year.

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For State Representative Edison I. Ballagh

I hereby announce my candidacy nary Election, May 18, this year.

The next session of the Legislature will be an important one for Columbia county as there will be a redistricting of the Senatorial and Representative districts throughout the state. Columbia county has now population which entities it to State Senator and a Judgeship of its own. With my Legislature experience and wide acquaintance ship through out the state if elected will be in a position to rende portant industry in ancient times valuable service to Columbia coun-

Edison I. Ballagh. (Paid Advertisement

In the County Court of the State of Oregon For Columbia County. In the Matter of the Estate of Martin Tobin, Deceased.

Notice is hereby given that the

administrator of the estate of Martin Tobin, deceased, by the County Court of Columbia County, State of Oregon, and has duly qualified. FOR SHERIFF
To the voters of Columbia county:
I hereby announce myself as a candidate for the office of sheriff of Columbia county and if elected I promise to administer the office

of Oregon, and has duly qualified. All persons having claims against said estate are hereby notified to present the same, duly verified as by law required, to the undersigned at his residence, on the Pitts-burg Mist road, wthin six months from the date hereof.

Dated and first published Feb. 9, 1928.

Last Publication March 8, 1928. W. A. Harris, Attorney. Frank J. Peterson, Administrator.

NOTICE FOR PUBLICATION Department of the Interior, U. 3. Land office at Roseburg, Ore-con, February 2, 1928.

land above described, before K. F. Frazer, U.S. commissioner, at Yeon Claimant names as witnesses: discourage the bug family.

Alfred Parkinen, Minnie Parkinen, Iver Parkinen, O. Enneberg, all of Mist, Oregon. Hamill A. Canaday,

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