

Wichita Daily Eagle

ART IN PIANO MAKING.

SIX YEARS ARE NECESSARY FOR PERFECT CONSTRUCTION.

Great Care in All Stages of Manufacture is of Vital Importance—Exquisite Skill is an Absolute Qualification in Every Workman.

Few people are aware of the amount of time and labor required to produce a piano. From the time the first log is sawed in the forest until the finishing touches and final overhauling are given to the completed piano from four to six years must pass. That is, every piano turned out from the factory or store today was begun four or five years ago, and ever since the time has been going through the various stages of preparation and construction. One of the large manufacturers, when asked by a reporter as to the process of construction, cheerfully gave the desired information, at the same time leading the way through the factory.

"This is really the second factory," said he, "for all the material comes here in a partially completed state. In the first place an experienced lumberman is employed by every manufacturer to select the logs and see that the grains of the different woods are straight and true. After these have been sawed the lumber is dried in weather proof sheds, where it remains from three to five years, according to thickness, until it has become thoroughly air dried.

"When the wood is cut out in the Massachusetts factory it is shipped here and comes first into the varnishing department, where it remains from three to four months in order that the pores of the wood may be thoroughly filled. That is really the secret of the fine polish on a finished piano. While this is progressing in the varnishing room other and important work is being done on the interior of the piano. The sounding board, which is also seasoned and tested in the first factory, is again thoroughly tested here.

"Every grain of wood and every joint is thoroughly investigated before it is put into the case. Here the skill of the piano maker begins, and only the most careful and competent workmen are intrusted with the responsibility of this department. Numerous mechanical and scientific arrangements are necessary to obtain satisfactory results with the sounding boards.

"Then the actions, keys and levers are attended to in another room. These portions of the piano are of the most vital importance, as it is upon the exact adjustment of the many levers and center points that the power and delicacy of the touch depend. These require care and attention and are fastened upon the piano in this department. The next stage reached is where the hammer, keys and actions are placed in their proper positions in the frame, when the piano first gives forth sound as a musical instrument.

"The principal object sought here is a powerful blow of the hammer upon the strings, to be produced by a light touch of the performer. The workmen in this department must have skill and experience, for the delicate and costly materials and mechanisms they handle and place in proper working positions make this branch one of great trust.

"In still another department the carvers are at work chiseling out legs and other ornamental portions of the piano. These, too, have to go through a course of sprouting in the varnishing room, where the keys, levers, hammers, sounding board and case have been properly put together. The piano goes to the fly finishing department, where all those parts which have been finished separately are placed in their respective positions; that is, the top, back board, legs, pedals and music rack are here adjusted.

"Now that the piano has been put together it remains in the fly finishing department from three to five weeks, and receives a preparatory course of tuning before going into the hands of the action and tone regulators. These first tunings are of great importance, and on the success of the future excellence of the piano depends.

"Then the instrument goes to the tone regulating department, probably the most important branch of all. Failure here is fatal, and must result disastrously as far as the production of a true musical instrument is concerned. The mechanical rules which have guided all previous departments take a back seat, and the highly trained ear and musical skill of the artist take the lead. All sound is conveyed to our sense of hearing by means of vibration running in waves through the air.

"The tone regulator must thoroughly understand the laws which govern the production of sound and tone. Uneven and irregular vibrations produce false and discordant tones. On the other hand, even and regular vibrations produce sweetness of tone and harmony. It is of vital importance to the piano maker to understand the laws which govern the production of the false as well as the true tones. It is in this department that the quality of the piano is determined.

"Of course you think this is the finishing point, but it isn't. Before it goes to the warehouse the piano goes into the hands of workmen of the very highest grade, who minutely examine every portion of the instrument. Every string and hammer, every center lever and spring, every screw and pin must undergo a rigid inspection, and not until these have been ascertained to be adjusted properly and the instrument is found to be in perfect condition is it passed over to receive its final polish and be placed in the warehouse.—Brooklyn Eagle.

When Other Methods Are Impracticable: Assault a Dangerous Character. Out at Prescott, A. T., ten years ago a young man with red hair, blue eyes and soft hands tramped into town. He had come down from the Tin Cup district of Colorado on a prospecting tour, but why he should strike into Prescott for anything nobody knew. He had been in hard luck, as anybody could see.

His blue woolen shirt had been washed and washed until it was almost brown from the corrosive action of alkali water, and his clothing was torn and wrinkled. He was a gentleman for all that. He had a pleasant word for everybody, although some of the boys had caught him drinking liquor like a blotto. He said he was on his way to Deming. Every night saw Jack at the Ark. He made friends with everybody except the stranger from the Tin Cup district.

One night when the Ark was blue with smoke, and "Idaho Jack" was in the midst of a harum-scarum story, the morose stranger quietly rose from his chair, walked up to the upper country room and cuffed him across the ear. For an instant not a word was said. Then of a sudden the Idaho ginner drew his weapon like a flash and fired. The stranger fell dead. Nobody knew his name, but when the sheriff ransacked his tattered clothing he found this note: "My name is A. C. Hepburn. My parents

Wichita Wholesale & Manufacturing Houses.

The houses given below are representative ones in their line, and thoroughly reliable. They are furnished thus for ready reference for the South generally, as well as for city and suburban buyers. Dealers and inquirers should correspond direct with names given.

CHAS. T. CHAMPION, WHOLESALE BOOKS, STATIONERY AND HOLIDAY GOODS. I carry the largest stock of above in the state and am prepared to fill orders promptly with the newest and best selling goods at EASTERN PRICES. CORRESPONDENCE SOLICITED. 118 East Douglas Avenue, Wichita, Kansas.

GLOBE IRON WORKS, MANUFACTURERS OF Steam Engines, Boilers and Pumps, and Dealers in Brass Goods, Rubber and Hemp Packing, Steam Fittings, Etc. Repairing of all kinds of Machinery a Specialty. Orders promptly filled for all kinds of Sheet Iron Work. All kinds of castings made. A. FLAGG, Proprietor, Wichita, Kansas.

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TO ART DEALERS AND ARTISTS, Artists' Materials, Pictures, Mountings and Frames Wholesale and Retail. Catalogue free. MAIL ORDERS PROMPTLY ATTENDED. F. P. MARTIN, 114 Market St. Telephone 28.

THOMAS SHAW, WHOLESALE DEALER IN Pianos and Organs. Sheet music and books. All kinds of Boston goods. Violin and orchestra music. 19 Main Street, Wichita, Kansas.

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LARGEST SOAP WORKS IN THE WEST, ESTABLISHED 1887. The Wichita Soap Manufacturing Company. LAUNDRY and TOILET SOAP. A full line of Laundry Soaps, including the famous "Magne" brand. Correspondence solicited and delivered prices listed on application. 602 AND 607 SOUTH FIFTH AVENUE, - WICHITA, KANSAS.

A NEW WAY TO COMMIT SUICIDE. Eve Was a Crank. Cranks are sometimes like the sharp pieces of glass that stand up viciously on an orchard wall to keep the greedy boys out, or like the cyclone that sweeps over the plain and annihilates a handful of humanity here and there, but after all the one saves the boys' stomachs untold gripings, the other drives the germs of disease before it and carries purity into life. The great reformers were such cranks. History is but a biographical memoir of a series of distinguished cranks from Eve's time to the present day. Eve was a crank of supreme eminence. Adam was a mistake. Though he is mentioned in history it is as an ignoble scullion, and he belongs to the class of boys without vertebrae.—Thomas M. Randall in Kate Field's Washington.

Wit and Satire in Wills. One might suppose that will making was anything but a merry occupation, and yet the drollery of the wills that some eccentric old fellows have left behind them could hardly be surpassed. Dean Swift could not have concocted a more bitter joke than that of the testator who, after reciting the obligations he was under to a particular friend, bequeathed to him as the bottom of the first page of his will ten thousand dollars, of course, brought the delighted legatee; but, on turning the leaf, the bequest was discovered to be ten thousand shillings. What a wet blanket for "great expectations!" Just as odd was the codicil of the death-stricken humorist who left to certain of his dear relatives "as many acres of land as shall be found equal to the acres enclosed by the track of the center of the oscillation of the earth in a revolution round the

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CORNER & FARNUM, ROYAL SPICE MILLS, SPRAY YEAST. A new process dry compressed yeast cake. Quick, strong and sweet. Always in the house ready for use, and will keep a year. Price 5c a package. Factory cor. Kellogg & Mosley Aves. 112 and 114 S Emporia Ave.

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E. VAIL & CO., WICHITA WHOLESALE GROCERY CO., WATCHES, JEWELRY, CLOCKS AND SILVERWARE. 106 E Douglas Ave. - Wichita.

Wholesale Grocers. OFFICE AND WAREHOUSE 213 TO 223 SOUTH MARKET STREET. Keep everything in the grocery line, show cases, scales and grocers fixtures. Sole agents for the state for "Grand" and "White" cigars, also sole proprietors of the "Royalty" and "La Innocenti" brands.

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LEWIS B. SOLOMON, Wholesale Cigars. BOARD OF TRADE BUILDING, WICHITA, KANSAS. Our leading brands of 5 cent cigars are La Corona, De Mexico, La Flor De Mayo, La Purifica, Key Brand, King Tom, Havana Capitan. Meticulously selected in order to give greatest satisfaction, all goods guaranteed. We also carry a full line of Key Brand Imported and Domestic Goods.

LEHMANN-HIGGINSON GROCER CO., Wholesale Grocers. 293 AND 295 N. WATER STREET. Are now ready for business. Keep a Full Line of Staple and Fancy Groceries, Woodenware and Notions.

Ingredients of Flint Glass. In making flint glass, which is the kind used in the manufacture of fine table ware and for cutting and engraving, the greatest care is taken in the selection and mixing of the ingredients. Upon the purity of these depends the transparency, colorlessness and brilliancy which constitute the chief value of the product. The ingredients of flint glass are fine sand, free from any trace of iron; red lead, alkali or soda, nitre and cullet. Sometimes the red lead is replaced by a heavy gray alkaline earth called baryta, though it is generally considered that red lead is essential to the finest quality of flint glass.—Youth's Companion.

To Cleanse a Room of Tobacco Smoke. Tobacco smoke has a way of clinging to a room and giving it a peculiar odor that sometimes cannot be removed by airing. One who has suffered recommends that a pail of water in which a handful of hay is soaking be left in the room for an hour or so. At the end of that time the smell will have entirely disappeared. As all exposures of the cigar or pipe can be removed so readily the man can smoke in whatever room he please, provided they will place

The Difference. Small Boy Looking up from his history.—Papa, the Union soldiers were paid only \$13 a month. Seems to me that's a awful small when a congressman is paid \$15 a day. Why ain't soldiers paid as much as congressmen? Papa—Soldiers, my son, do not fret their brains over such things.—New York Weekly.

Why They Disappeared. The disappearance of the mackerel gull from Maine waters is due to the mercurial work of the men who supply the millinery with plumage. For the mackerel gull they paid ten cents each, a price so remunerative to professional gunners that thousands were in the short space of two years practically exterminated. All of the stragglers were also in great demand. Even the little eagles did not escape, for a single order was placed for 500,000 of these of three cents each to fill an English contract.—New York Weekly.

Children Cry for Pitcher's Castoria.

Beecham's Pills (THE GREAT ENGLISH REMEDY) Cure BILIOUS and NERVOUS ILLS. 25cts. a Box. OF ALL DRUGGISTS.

Make Your Daughter Love You. If you want to cure a small boy of over-care talk to him of heroes and heroism, and if you want your daughter to make the most of herself and to be proud of you as a teacher and mother keep the beautiful constantly before her. You know how you bought cosmetics to beautify yourself, how you followed the recipes for removing freckles and bright all the skin of your face. You remember, too, the bottle of kumuduim you kept in your trunk for unworldly purposes, and the quantity of patent medicine you swallowed on the fly in the hope of getting tall, removing tan or becoming as girlish as an orange. You could save the fullible trial of all this expense, involving disappointment and physical derangement by telling her how beautiful and fair she is, how glorious her eyes are and how more than priceless her youth is. Put her at her ease. Get her to relax with herself and you will make a beauty of her. Feed her heart and mind as well as her body. Tell her you love her, call her sweet names, reserving plain Maria for company. Get her confidence, cover up the blemishes by enlarging on her good points. Select ideals for her to emulate in the world or in the world of poetry, and though she may not reach any one of them the attempt will do her a world of good.—Exchange.

The New Game of Clumps. In this game all the players are equally divided. They sit on opposite sides of the room, and a girl is taken as an opponent and a boy from the other. They leave the room, while each clump thinks of some word, proverb or incident. They then return into the room and go each to the opposite party whence they came. By dint of questions and cross questioning they must find out the word or incident. If the girl succeeds she rejoins her own clump, if she fails she sits with the other, and the same with the boy; if he succeeds he keeps with his own party, and if he fails he also has to join the adverse party. The failures thus swell the clump opposed to their word or incident. The last by the side that numbers most at its conclusion. It is an amusing game, the different clumps welcoming the successes and failures, making it lively and bright.—Augusta Chronicle.

Pot Culture of Cranberries. The common cranberry of our swamps is a very attractive plant when cultivated in pots. The plants are evergreen, and will grow in any ordinary living room with care. The beautiful vivid colored berry will remain on the plants till the flowers appear for the next crop. The best way to cultivate them is to line a shallow box that fits the window sill with sand, and bore two holes in the bottom in the side nearest the room for drainage. Fill the box half full with moist cover it with a layer of moss, put the plants in, and always keep the moss moist. Sprinkle the moss and plants thoroughly, putting a pail beneath the two holes to receive the drip. Bits of lark tucked upon the outside of the box add to the sylvan beauty of this little window garden.—Cor. Good House-keeping.

Diversity of Manners. "Vulgarity lies in manners unbecoming to the condition of life to which you belong. A lady is vulgar when she has the manners of a kitchen maid, and the kitchen maid is vulgar when she affects the manners of a lady. Neither is vulgar so long as she is contented to be herself."

Don't Dispute in Company. Don't be disputatious. An argument which goes rapidly from one to another may be tolerated, but when two people in company fall into a heated dispute, to the exclusion of all other topics, the hostess should arbitrarily interfere and banish the theme.

Mrs. John A. Logan is quite an adept with carpenter's tools, and can put up a shelf or build a cupboard almost as skillfully as the best workman.

Keeping Milk Without Ice. Housekeepers who cannot afford to meet their greatest difficulty in trying to keep milk. That they can easily overcome by canning as they do fruits. The cans should first be thoroughly washed, then boiled in the water for half an hour longer. This should be done before the milk is added. As soon as it comes put it into the jars and tightly screw down the lids. Place them in a cooler or cold water, which should be heated gradually. Keep the jars steaming for not less than an hour, then remove the lids down and make them air tight. If this process is rightly completed the milk in the jars ought to keep unchanged for at least a week. It is also freed from all disease germs, as a carrier of which it is notorious.—New York Telegram.

Wedlock. No woman will love a man better for being removed or prominent. Though she be the first among men she will be prosaic, not tender; as is often the case, she will not even be proud. But give her love, appreciation, kindness, and there is no sacrifice she will not make for his content and comfort. The man who loves her well is her hero and king—no less a hero to her though he is not to any other, no less a king though his only kingdom is her heart and home. His love is her life, her joy, her power, his kindness, and there is no sacrifice she will not make for his content and comfort. The man who loves her well is her hero and king—no less a hero to her though he is not to any other, no less a king though his only kingdom is her heart and home. His love is her life, her joy, her power, his kindness, and there is no sacrifice she will not make for his content and comfort.

DRINK EXCELSIOR SPRINGS. "Regent" WATERS. Nature's Tonic, Diarrhetic and Urine Solvent. SOLD ONLY IN BOTTLES BY WICHITA PRODUCT CO., Agents, 123 N. Market.

CHINESE PILLS. Say, When the wind blows your fire, it is useless to tire yourself. About half of your toil can be avoided by the use of Sapolio. It doesn't make us tired to tell about the merits of SAPOLIO. Thousands of women in the United States thank us every hour of their lives for having told them of SAPOLIO. Its use saves many weary hours of toil in house-cleaning. BEWARE OF IMITATIONS. Grocers often substitute cheaper goods for SAPOLIO to make a better profit. Send back such articles, and insist upon having just what you ordered. ENOCH MORGAN'S SONS CO., NEW YORK.