THE EVOLUTION OF THE PIAN (Copyright, 1900, by Seymour Eaton.)

THE OREGONIAN'S HOME STUDY CIRCLE: DIRECTED BY PROF. SEYMOUR EATON

HISTORIC STUDIES IN

HOME FURNISHING

VII.

BY MARGARET AINBLEE.

When Queen Elizabeth attempted to draw from Sir James Melville some un-favorable comment upon her Scottish cousin's performance upon lute and vircousin's performance upon jute and vir-ginal, he partied her thrusts by declaring that "she played reasonably for a Queen." Not content with so non-commital a re-ply, the subtle coquette planned one of her delightful little impromptus, hoping therewith to surprise an unwilling compilment from the wily ambassador. She acrdingly caused Melville to be conducted a lord-in-wniting to a gallery, whose



Monochord. (From the "Theorics Munice"-1490-of Fran-chinus Gafurius.)

slience was unbroken save by the expres donless tinkle of the virginal upon which she was artiesly pouring out her soul. Instantly divining the ruse, the canny ficet suffered himself to be intruded into the royal presence, protesting that the pushe he had heard was of so exquisite a music he had heard was of so exquisite a kind that it had irrestetibly drawn him thither. Compliments sufficiently stimu-lating to the Queen's jaded sensibilities were then showered upon her, but anught decrogatory to Mary's necomplishments could be wrung from the master of equi-voque. This little incident but serves to fix the date of the spinet or virginal, said by many to have been named for this Queen among virgins, by others to have been so called simply "because maids and virgins do most commonly play upand virgins do most commonly play up-

Whatever the derivation of the name of the virginal, it is sufficient to know that the instrument was one of the ancestors of the modern plano. All stringed in-struments of whatever size, shape or name, played by means of a keyboard, were descended from the hapsichord or virginal, or else from the clavichord, and they differed from each other in the means by which their sounds were pro-duced and the consequent distinction in the quality of their tone. In one class sound was obtained by pressure and ortening of the strings, while in the other a similar result was achieved by



Italian Virginal, Sixteenth Century, (South Kensington Museum.)

plucking the strings with quills or jacks. The clavichord traced its ancestry back to the monochord, a primitive instrument having a single string stretched over a soundboard, upon which were marked the divisions corresponding to the different degrees of the scale, and a movable

and thinner strings and longer and heav ler ones to the lower tones. Naturally the thinnest atrings required the greatest length. For example, were the bass strings of modern planos of the same thickness as the treble strings they would have to be vastly lengthened in proportion. John Sebastian Bach always tuned his own instruments, testing his system in that famous collection of fugues and preludes in all keys known as "the welltempered clavichord.

Despite the agreeable sensitiveness of the clavichord-that "solitary, melan-choly, unspeakably sweet instrument"-there was a feeble tremulousness about it which led to a desire for an instrument whose strings could be excited to ment whose strings could be excited to stronger vibrations. To meet this demand a keyboard was added to the ancient pailtery, and from this combination was evolved the harpschord, the most im-portant of all the keyboard predecessors of the plano. In this hypositu prenecessors of the plano. In this instrument the keys were set in vibration by hard points of shell or ivory, which when forced up-ward by the depressed keys plucked or twitched at the strings. After the ivory points were replaced in the 15th century by coulds the instrument was called a by quills, the instrument was called a spinet, a name of double derivation, from Spinnetit, a manufacturer of musical in-struments, and from "spins," a thorn, or

The compass of the early keyboards was but four and one-half octaves, and in the old German instruments the coloring was reversed, the raised keys being white and the natural black. The harpschord until mearly the close of the last century had a place in the orchestra, where its increased power atoned for its monotonous creased power atoned for its monotonous staccato. In Germany, however, it never gained a strong foothold, Bach and Beeth-oven claiming that tone and expression could best be controlled in the clari-chord, which instrument ient itself more readily than the harpsichord to nicely of execution. In the German household it was also claimed that despite its weak-ness the clavichord was "the comfort of the sufferers and the sympathizing friend the sufferers and the sympathizing friend and same the sympatrizing right of cheerfulness." Mogart's technique, however, was that of the harpsichord. The invention in 1710 of the planoforte, from "plano e forte." "soft and loud," by Christofori, the Florentine harpsichord-



(Steinert collection.)

maker, drove from the musical field both the sensitive clavichoard and its noisier fival. Patterned after the trapeze-shaped numbers, where the trapeze-shaped ery, whose sound was produced by plucking the strings, the new instrument was played like the dulcimer, by strik-ing with small hammers. To the develop-ments of Silbermann of Dresden belong almost as much credit as to the invention of Christofori. Stung by the frank cen-sure of Bach Silberman labored man of Christofori. Stung by the frank cen-sure of Bach, Silbermann labored many years to correct the heavy action and weakness of the upper notes which char-acterized the first pisnos. The new in-strument made its way but slowly be-cause of the novelty of its technique. Chopin's appreciation of the increased tonal beauty obtained by use of the pedal, and Beethoven's dramatic musical decla-mation, best described as "tone painting," did much to prove the superiority of this did much to prove the superiority of this instrument for vigor, sonorousness and sustained melody. Its capabilities for light and shade also commended it to the serveral public, but it was not until metal pracing was successfully used in its con-struction that the plano definitely super-seded its predecessors. Metal was first used for strengthening and then for mak-ing the entire frame, when it became possible to secure the purest and most brilliant notes by means of heavy stringe brilliant notes by means of heavy strings under great tension. The finest treble

sively harmonizing with the designs of Sheraton and Hepplehitte, iniaid with small plaques of Wedghvood, jasperware or conforming to the clashe Greek of smor conforming to the class out, jasper write pire styles. A curious plan, belonging to the Princess Charlotte was made by Broadwood early in the pream century. Square in shape, it is veneered with a sin-sie sheet of ivory, the elephant's tusk having been cut in circular fashio, after it had been softened by acid. heacting from the bad taste of the Victoria era, which is now so extravagantly deried, manufacturers have made their cases of rare and carefully selected woods. Alma-Tadema designed cases in the Byzatine style, while Burne-Jones revived the old-fashioned trestle support formerly used

fashloned trestle support formerly used for harpsichords, and had the happy in-spiration of painting a rain of roses right across the sounding board.

General is on his way from Mexico City to take command of the Mexican forces and wipe out the Indians."

Obligatory Military Service. SANTIAGO DE CHILE, via Galveston,

Aug. 29.-Obligatory military service has been approved by the Chilean Congress. AT THE HOTELS.

THE PORTLAND.

THE PORTLAND. B H Libby, Lewiston J W Van Prang, N Y Marzus, N Y F E Livengood, Cheo W F Orifin, Chicago 2 shildren & nurse 2 children & se m Fr 2 children & furse 2 children & furse 2 children & se m Fr 2 children & furse 2 children & furs

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PRISON FOR LIFE 10

SENTENCING OF BRESSI FOR KILL-ING OF KING HUMBERT.

The Penalty the Most Severe Under the Italian Laws for Murder.

MILAN, Aug. 29.-The trial of Bressi the anarchist, who, July 29, shot and killed King Humbert of Italy, at Monsa, while His Majesty was returning from a

Another Yaqui Uprising. SAN FRANCISCO, Aug. 2.—The steam of the activity of the Yaqui Indians in Mexico. "The Yaquis had another up-rising about two weeks before we left Guaymas," said a passenger on the Cura-coa, "and they were on the warpath when we left. They were on the Yaquier Riv-er, and within a few miles of Guaymas," It is understood that an able Mexican General is on his way from Mexico City to take command of the Mexican forces and wipe out the Indians." long, has being read. Bressi was appar-ently is how and scanned the faces of the autonea without any stems of feat

autence, without any signs of feat effrottery. The indictment showed or effrontery. The indictment snowed that the assassin indulged in incessant target pretice, and that he prepared bul-lets so asto render them more dangerous. The witnesses were then introduced, 11 for the presecution and five for the de-fense.

The examination of Bressi followed. He The exampation of Bressi followed. He declared he locided to kill King Humbert after the evints of Milan and Skelly, "to avenge the fistery of the people and my own." He added: "I acted without ad-vice or accomplices." The prisoner ad-mitted the target practice and the prep-aration of bulgets. He spoke in a low, firm voice, and said he fired three shots at three words with his amplies. The at three yards with his revolver. Two wooden targets were here placed on the table before the ludges. Two hours' sus-pension of the cort ensued, and then the witnesses were hard.

A brigadier of Sindarmes, Salvatori, re-capitulated the stry of the assassination of the King. He said, he saved Bressi from the crowd, who nearly lynched the assassin. Bressi, when rescued, was covered with blood.

Bressi escaped with life imprisonment, as that penalty is the most severe which can be imposed under the laws of Italy for murder, on which charge the an-archist was tried. It was at first believed Bressi would be tried on the charge of treason, in which can the penalty would have been death.

Bressi's Wife Hears the News.

NEW YORK, Aug. 2.—The news that her husband had been sentenced to life imprisonment for killing King Humbert of Italy was carried to Mrs. Bressi at her home in Union Hill, N. J. When told of the sentence, she wert bitterly. When she calmed down, she sild: "My Boor Gastmool He has here told

she calmed down, she sud: "My poor Gastano! He has been tried, convicted and sentenced in one day. That was a great injustice. I would rather see him dead than have to po to prison for life. I know he will not he able to stand long the life he will have to lead prison."

Missing Anarchist Found.

BUDA PEST, Aug. 28-Gleuseppl To-mazlo, a Venetian, who is believed to have been an accomplice of Luigi Lucheni in the assassination of Enpress Elizabeth of Austria, has been arested here. He was seen with Lucheni shortly before the assassination but disposed to be assassination, but disappeared. He has been living here under the name of Josef Gres.

CAPTURE OF MACHADODORP. Buller Occupied the Town, the

Biers Retiring.

Bers Retiring. LONDON, Atg. 2.-Lord Roberts, un-der date of Beläst, August 2. telegraphs: "Buller's adväce occupied Machado-dorp this afterioon. The enemy made a poor stand and retired northward, fol-lowed by Dundothia's mounted troops, who could not praced beyond Heivetia on account of the ifficult nature of the country and the enemy taking up a posi-tion too strong to e dislodged by the mounted troops. It appears that Buller's casualities were very 'ew. "French continued the movement today as far as Elandsfonteh, from which he turned the enemy out with no difficulty. The latter retired, leaving quantities of good cooked food behind "General Buller's casuaties August 37

"General Buller's casuaties August 27 were: Killed, one officer and 12 men; wounded, seven officers and 57 men."

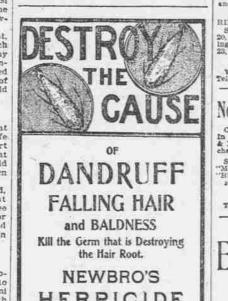


A Perfect Balance

Of mind and body was the Roman Of mind and body was the Roman idea of perfect health. They de-fined this balance as "a sound mind in a sound body." A weak or sickly body tends to drag down the mind to its own level. Keep the body in health and the mind will the care of itself. The health will take care of itself. The health of the body depends mainly on two things: A sound stomach and pure blood. Dr. Pierce's Golden Medblood. Dr. Pierce's Golden Med-ical Discovery preserves the bal-ance of health, because it makes the stomach strong and the blood pure. People who had not had a well day in years, nervous of body, decrement of mind the store of body. depressed of mind, have been fectly cured by the use of "Golden Medical Discovery."

Medical Discovery." "During the summer and fall of 1866 I became all ran down," writes Charles H. Sergeaut, Esq., of Plain City Madison Co., Ohio, "nerves were out of order and stom-ach was out of order. I wrote to Doctor Pierce for advice. He said I had general debility, and advined Dr. Pierce's Golden Medical Discovery: I used six bottles, and sin to I stopped taking it about one year ago, I have not taken any medicine of any kind, and Astre been able to more reery day. My appetite is good. I do not feel that burning in the stomach after eating, and my blood and nerves are in good and perves a Med.

Dr. Pierce's Medical Adviser, paper covers, is sent /ree on receipt of 21 onecent stamps to pay expense of mailing only, Address Dr -Pierce, Buffalo, N.Y.





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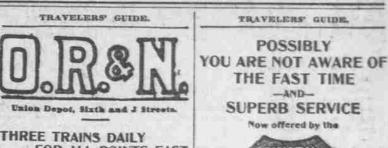
MUNYON'S GUARANTEE,

Philadelphia, Pa.

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some always.

others who know.



FOR ALL POINTS EAST "CHICAGO-PORTLAND SPECIAL.

Leaves for the East, via Huntingto A. M.; arrives, 4 P. M. SPOKANE FLYER, For Spokane, Eastern Washington, and Great Northern points, leaves at 6 P. M.; arrives at 1 A. M.

A. M. ATLANTIC EXPRESS, Leaves for the East, via Huntington, at M.; arrives at 5:40 A. M.

THROUGH PULLMAN AND TOURIST SLEEPERS. Water Home schedule, subject to change with ut notice.

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OCEAN AND RIVER SCHEDULE. OCEAN DIVISION - Steamships sail from Ainsworth Dock at 8 P. M. Leave Portland-State of California, Sunday, Aug. 35, Weinset-day, Aug. 16, Saturday, Aug. 26, Tuesday, Sept. 4, Friday, Sept. 14, Columbia, Friday, Aug. 10, Monday, Aug. 20, Thursday, Aug. 30; Sunday, Sept. 8; From San Francisco-Leaving Spear-Street Pier No. 24, San Francisco, at 11 A. M., as follows: State of California, Wednesday, Aug. 1; Saturday, Aug. 11; Tuesday, Aug. 21; Staturday, Aug. 11; Tuesday, Aug. 21; Sunday, Aug. 6; Thursday, Aug. 14; Sunday, Aug. 20; Wednesday, Sept. 8. COLUMBLA STATE DIVERSION

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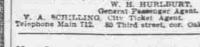
WILLAMETTE RIVER DIVISION. FORTLAND AND SALEM, OR. Steamer Ruth, for Salem and way points, leaves Fortland Mondays, Wednesdays and Fri-days at 6:00 A. M. Returning, leaves Salem Tuesdays, Thursdays and Saturdays at 6:00 A. M.

YAMHILL RIVER BOUTS.

M.

PORTLAND AND DATTON, OR. Steamer Elmore, for Dayton and way points, isaves Portland Toendays, Thursdays and Sat-ardays at 7 A. M. Returning, Reaves Dayton for Portland and way points Mondays. Weomesday, and Stidays at 6 A. M. SNAKE RIVER ROUTE.

SKAKE RIVER ROUTE. RIPARIA. WASH. AND LEWISTON, IDAHO Steamer Lewiston leaves Reparta Aug. 16, 18, 20, 22, 24, 26, 28, 30, at 3.40 A. M. Return-ing, the Lewiston leaves Lewiston Aug. 19, 21, 23, 25, 27, 29, 11, at 7 A. M. W. H. HURLSURT, General Passenger Agent. Y. A. SCHILLING, City Ticket Agent Telephone Main 712. S0 Third street, cor. Oak







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San Francisco, Mo-jave, Los Angeles, El Paso, New Or-Mans and the East

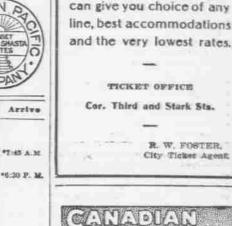
Leave

*8:30 P. M

*5:30 A. M.

4:00 P. M.

47:30 A. M. \$4:50 P. M.







bridge used for the monsurement of vi-brating lengths. As shown in the filus-tration the earliest monochories were stretched by means of weights, some varelates menufoned by Greek theoring hav-ing as many as four strings. Soon a primitive form of keyboard, such as had been used with antiquated organs, was applied to the monochord. In time the ovable bridge was replaced by an upmovable bridge was replaced by an up-right wedge stracked to the key lever, which, when the key was pressed by the finger, struck the string, set it in vibra-tion and simultaneously shortened it to the length indicated by the key's post-tion. From this modified monochord there was but a brief transition to the clavi-chord (from "clavis," a key, and "chor-da," a string), which, in spite of its in-creasing number of keys and strings. kept the name of monochord as has as kept the name of monochord as late as the 18th century. It was probably in ref-erence to this instrument that the fol-



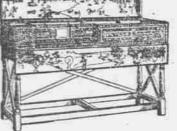
Harpstehord, End of the Sixteenth Century.

(Museum of the Paris Conservatory.)

lowing letter was written by the poet

lowing letter was written by the poet Bembo to his daughter: "Touching thy desire to learn to play upon the monochord. I answer, since be-cause of thy tender years thou cannot, not know of thyself, that playing is suit-ed only for vain and frivolous women; but I desire these to be the purest and most lovable mulden in the world. More-over thou woulded have but firth plays. most lovable mulden in the world. More-over, thou wouldst have but little pleas-ure or renown if thou playedst badly, and to play well it would be necessary for thes to spend 10 or 12 years in prac-tice. Consider for thyself if that would be proper for thes. If now thy friends and compaulous desire thes to learn to play in order to give them pleasure, so make thyself ridiculous before them, and dontent thyself with learning and handi-work." work.

In the early clavichords, which stway, In the early cluvichords, which siways kept the rectangular box shape inherited from the monochord, the strings were of the same length—an arrangement not without its advantages, since it was thus easier to keep the strings tuned in unison. As the compass of the instru-ments increased this uniformity was found to be impracticable, and a long wooden bridge placed diagonally was in-trofuced and so arranged that it was possible to give the upper tones shorter



Harpsichord. (From the per

sington Museum.)

string of the modern instrument is thickstring of the modern instrument is thick-er than the thickest bass string of the first planos, whose tension was corre-spondingly slight when wood offered the only resistance. The vast difference is more readily appreciated when we realize that the strings of the modern grand concert exert a force of 5.600 pounds, only the solidity of the iron frame pre-venting its entire destruction. Although the modern instrument has gained stradlly in strength and mechan-lam, its outward proportion and decora-

am, its outward proportion and decorathen have undoubledly fallen from grace. The four and a half octaves for which the fluest of past music has been written lett a comeliness of proportion sadly lacking in the modern grand plano. While lacking in the modern grand plano. While the additional modern octaves add to the thrillness of the treble and to the suril-ness of the bass of the concert hall plano, for ordinary use the gain in compass is not commensurate with the unwieldiness of the instrument. The "wing form" of the modern grand supersceled in the reign of Queen Anne the earlier rectangular forms. During the middle of the 18th cen-tury many of the rectangular cases were sent to China, where they were coated with lacquer. When this art was imi-tated in Europe many cases were decotated in Europe many cases were deco-rated in the Vernis-Martin style with pic-tures painted as delicately as miniatures, parts of the case being ornamented with rabesques of gold upon a dark-colored ground. The construction of these planos, with their seven slender carbriole legs, was in keeping with the sentiment of the



C. W. Knowles, Mannger. S D Adahr, Astoria C D Durgah, Bookn J A Browne, Spokane Toop Delmas, San Jos R M Sargent, Seattle J C Boschken, do Wm J Boschken, do Wm J Boschken, do Fred Doern, do Bay A F Hamhill, Seattle H C Loci, U S Colume H B Augur, Fortland Mrs J Gansel, N Dak A C Tamm, N Y J L Albertson, Butte R W Brown, Butte R Sarnes, Albany Mas Sarnes, Albany Mars J Caller, Chicago H E ST. CHARLES

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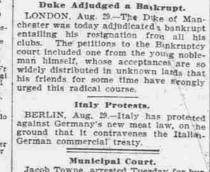
THE ST. CHARLES. G P Garther, Etna John N Hartley, Olegun John N Hartley, Olegun Frank Sachman, do Wm Burdett, McMinn Rock G W Stephens, city G Artiold, Toledo M E Stone, Pendleton T Graham, Marahind La Gestan, do G H Lee, Canby, Or E Benny, Hubbarn, Astoria O Seaton, Aurora J Hankins, Astoria Mason, Eugene E Thompson, Seastide I Huk, Sastoria J Hankins, Astoria J Hankins, Astoria J Hankins, Astoria J Hankins, Astoria G T Tilly, Bucoda I Hartis, Bucoda I Hairis, Bucoda I Hairis, Bucoda J Hankins, Astoria J Hankins, Bucoda J Hankins, Barther Kang Protiz, Eugene H L Gee & w. Fester Nasonneen, Astoria Mra Simonsen, Astoria Mra Simonsen, Astoria Mra Simonsen, Matoria J Steele, city clety.

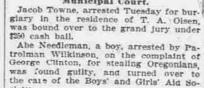
A Mason, Eugene A E Thompson, Seasida, R A M Reynolds, M J Hankina, Astoria J Haili, Rossiand H L Stove, Spokane L Larvy, Spokane L Larvy, Spokane C Harris, Bucoda C Harris, Bucoda C Harris, Bucoda C Harris, Bucoda C Hossman, San Fran J J Schmidt, Kainier W B Steele, dity Geo Realch, Butteville Geo Raalch, Butteville Geo Raalch, Butteville J H Richardison, do H L Warren, Clainkan nie Chas Olsen, Toledo Thos Davis, Cathlannet U S Yaughan, Buttevill Geo Friel, Butteville J H Warren, Clainkan Ne B Steele, Cathlannet J S Schmidt, Kainlannet Ne B Steele, Butteville J H Warren, Clainkan Ne B Steele, Butteville J H Warren, Clainkan Ne B Steele, Cathlannet J B Kendey, John G Anrington, do H L Warren, Clainkan Ne B State, Corval Iso T A S Mugran, do T J Bolter, Brooks, Or E W Holt, Troutdale Floyd Puzey, Warren Edit Darr, Aslori A F Jones, Duluth Miss Jones, Balts, Goreson Sinckers, Balles C C States, Abany G S Allan, Seastide H Misson, Geregon S Dusbenny, do E S Mickline, Cregon S Dusbeny, do E S Mickline

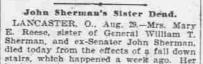
Hotel Brunswick, Seattle, can; first class. Rates, 75c and up. One from depot. Restaurant next door.

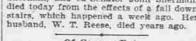
Tacoma Hotel, Tacoma. American plan Rates, \$3 and up.

Bonnelly Hotel, Tacoma. European plan. Rates, 50c and up.











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