

AUSTIN ORGAN COMPANY

HARTFORD, CONN., U. S. A. ✓

Contract No. 939

WITH

Cathedral St. Peter & St. Paul
Philadelphia, Pa.

The Organ No.

Stop

Factory

Serial

Finished

By

At

For

By

At

Memorandum of Agreement, made this Twenty fifth day of

February A. D. 1920, by and between the

Austin Organ Company of Hartford, Connecticut, U. S. A.

party of the first part, and Cathedral of St. Peter and St. Paul, East Logan Square,
(Right Reverend Monsignor Daniel J. Gercke, Rector.) Philadelphia, Pa.
party of the second part.

WITNESSETH: The party of the first part, in consideration of the agreements herein of the party of the second part, hereby agrees to construct, erect and sell to the party of the second part a pipe organ, according to the annexed specifications, said organ to be erected complete and ready for use in the above Cathedral

on or before the FIRST day of NOVEMBER, 1920 subject, however, to delays from fire, strikes or causes beyond the control of the party of the first part.

The party of the first part further warrants that said organ when completed shall be free from any defects in material or workmanship, and agrees that if any such defect or defects should develop within five years after completion the party of the first part will, upon written notice within such period of such defect or defects, forthwith remedy the same at its own expense. This undertaking does not include tuning or such care as may be necessary for the proper preservation of the instrument.

The party of the first part further warrants that the wind pressure of said organ when completed will be unvarying under all conditions of use, that the action will be practically instantaneous in response and repetition, that the touch will not be affected by additional couplers or atmospheric variations, and that the console arrangements will be convenient and reliable in operation.

The party of the second part, in consideration of the agreements herein of the party of the first part, hereby requests the party of the first part to construct and erect said pipe organ, and agrees to purchase the same and to pay therefor the sum of THIRTY THOUSAND
(\$30,000.00) Dollars in New York City funds as follows:

~~When the principal portions of said organ are assembled in the factory of the party of the first part, the sum of _____ Dollars.~~

~~Upon the delivery in the above named building of the principal portions of said organ, or if such delivery is delayed to accommodate the party of the second part, then when the principal portions of said organ shall be constructed and ready for shipment, the sum of _____ Dollars.~~

Upon the erection of said organ complete, in accordance herewith, the party of the second part agreeing to thereupon examine said organ immediately in the presence of a representative of the party of the first part, the balance of said contract price, to wit, the sum of Twenty Thousand (\$20,000) Dollars

*Chimes
bells
wreaths*
Cash on completion of organ. The balance Twenty Thousand (\$20,000) Dollars in two notes of \$10,000 each, First note payable one year after completion of organ, Second note payable two years after completion of organ, (without interest.)

The party of the second part further agrees to have the above named building in condition suitable and proper for the erection of said organ, motor _____ and blowing gear, and to permit the erection thereof at least Sixty days previous to the date fixed for the completion of the organ aforesaid, and to give to the party of the first part the ~~exclusive~~ use of said building for the purpose of regulating and tuning said organ at least Five days previous to the date fixed for said completion.

The party of the second part further agrees at its own expense to ~~build suitable foundation and enclosures~~ when necessary for motor _____ and blowing gear, to ~~do all wiring or plumbing connected therewith including air ducts from blowers to organ, and conduits that may be necessary for the electric organ cables, to install such electric lights as may be needed for the erection and future care of said organ, and to do all cutting of floors, partitions or other parts of the building, when and as directed by the party of the first part, and to~~ supply necessary light, heat and power during the erection, regulating and tuning of said organ.

The party of the second part further agrees to assume all risk of damage to the organ or its parts while contained in the above named building, and to insure the same in good reliable companies against loss or damage by fire, water, lightning and tornado, in the sum of not less than eighty per cent
of contract price Dollars in the name of and for the benefit of the parties hereto as their respective interests may appear.

It is mutually agreed that the title to and ownership of said organ shall be and remain in the party of the first part until the contract price, as heretofore stated, has been fully paid with interest upon any deferred payments at the rate of six per cent. per annum, and that upon such payment said organ shall become the property of the party of the second part.

price the title to and ownership of said organ shall be and remain in the party of the first part until such note or notes are paid, and in the event of a default in the payment of any interest on such note or notes or in the event of a default in the payment of any one of a series of notes given for the balance of said contract price when due, then in either event all of said sums represented by said note or notes, as the same may be, shall become due and payable, and the party of the first part shall have the right to enter the premises of the party of the second part and remove said organ.

It is mutually agreed that in case there shall arise any differences between the parties hereto regarding the completion of said organ, such differences shall, at the request of either party, be submitted to a committee of arbitration, to consist of three disinterested persons to be forthwith chosen, one by each of the parties hereto, and the third by the two so chosen, and the finding of a majority of said committee as to whether and when said organ had been fully completed in accordance with this contract shall be final and binding upon the parties hereto.

It is mutually agreed that in the event the party of the second part shall fail to comply with the terms of this contract, or any of them, as hereinbefore provided, that all sums paid by the said party of the second part to said party of the first part shall be considered and treated as liquidated damages for the breach hereof, and the said party of the first part shall have the right to remove said organ, or any part thereof, situated on the premises of the party of the second part.

It is hereby mutually agreed that no changes, alterations or additions to this contract shall be valid unless assented to in writing by both parties hereto.

IN WITNESS WHEREOF the parties hereof have interchangeably set their hands and seals the day and year first above written.

Wm. S. Thunders
Charles Coulton

Austin Organ Company
Herbert Snowy
Donald Spencer, Rector.

SPECIFICATIONS FOR A PIPE ORGAN
TO BE BUILT ON THE
AUSTIN UNIVERSAL AIR CHEST SYSTEM

(Patented in the United States, England and Canada)

FOUR manuals, compass CC to C⁴, 61 notes. Pedal, compass CCC to G, 32 notes.

Action, Austin patent. ELECTRO pneumatic key and ELECTRO pneumatic stop.
Console, Detached; pattern stop-key; case any native wood

Pedals, A.G.O., Willis model, concave and radiating
Couplers, and speaking stops by stop-keys over upper manual
Unisons, by stop-keys
Composition pistons, under respective manuals, adjustable, moving registers

Composition pedals, adjustable, moving registers
Swell boxes Double construction, horizontal beveled shades
Case, Present Old Case Finish, _____
Design, _____

Displayed pipes, Present old ones

Blower, Orgoblo Motor, Electric
Direct, _____
Current, Alternating, _____ Volts, _____ Cycles, _____ Phase. Pressure, _____ Lbs.
Pitch, International 440A. Wind pressure, 7" & 15"
Low Voltage Action Generator

All wood pipes are to be glue sized inside and varnished outside, with patent metal toed feet $\frac{1}{4}$ inches up and containing voicing slides in larger bores. Metal pipes are to be of proper proportion of pure tin and pure lead for their respective tonal requirements. Basses are to be of best annealed zinc having metal toes, mouths and tuners. Reeds are to be of special design. The case-work will be of suitable design without carving or elaborate detail, provided that if any case-work of special design is required by the party of the second part, complete architect's drawings and details must be furnished within reasonable time, and the additional cost thereof shall be paid for as an extra, 50 per cent. upon delivery of the organ and the balance upon completion of the same.

Voice powerful especially diapasons & flutes in middle & upper registers. Large auditorium

GREAT ORGAN. 7" wind

Double Open Diapason	24 wood 37 scale.	16'	61	pipes	metal + wood.
Tibia Clausa	Sedal Jordan scale	16'	61	"	wood
First Open Diapason	140-wood bass, tapered	8'	61	"	metal
X Second Open Diapason	46-43 to 37 top from top	8'	61	"	"
X Third Open Diapason	46	8'	61	"	"
X Violoncello	55	8'	61	"	"
X Doppel Flute	usual	8'	61	"	wood
Clarinella	usual	8'	61	"	"
Octave	55 notes fully	4'	61	"	metal
X Rohl Flute	4' melodia scale voice big	4'	61	"	" & m
Fifteenth	usual scale	2'	61	"	metal
X Harmonic Trumpet	5	8'	61	"	reed

Swell to Great	16'
Swell to Great	8'
Swell to Great	4'
Choir to Great	16'
Choir to Great	8'
Choir to Great	4'
Solo to Great	16'
Solo to Great	8'
Solo to Great	4'

Eight adjustable combination pistons to control Great stops & couplers.
(X SELECTED STOPS OF GREAT ORGAN TO BE ENCLOSED IN CHOIR BOX)

SWELL ORGAN. 7" wind

R Bourdon	usual scale	16'	73	pipes	wood
R Diapason Phoson	43-40	8'	73	"	metal
English Diapason	46-43	8'	73	"	wood metal.
Stepped Flute	Tibia clausa scale with Rohl flute	8'	73	"	"
Viole d'Orchestre #1	base	8'	73	"	metal
R Viole Celeste #1		8'	73	"	"
Solifloneal	61 not too soft	8'	73	"	"
Chimney Flute	usual with 1st Diap. bass	8'	73	"	"
R Principal	58	4'	73	"	"
Flauto Traverso	usual	4'	73	"	w & m
Flautino	usual	2'	61	"	metal
R Mixture	16th, 15th, 17th, 19th, 22nd. A & S Ranks		281		
Double Oboe Horn		16'			281
Oboe	Usual scale	8'	85	"	reed 260
Clarion		4'			180
Cornopean	4 1/2" usual	8'	73	"	"
Valve Tremolo	special chest & box but not tremolo	8'	61	"	"
Swell	16'				
Swell	8' (Unison Off)				
Swell	4'				
Solo to Swell	8'				

Eight adjustable combination pistons to control Swell stops & couplers.

CHOIR ORGAN. 7" wind

Violin Diapason	46	8'	73	pipes	metal
Concert Flute	usual scale.	8'	73	"	wood
Flute Celeste	usual scale	8'	61	"	"
Violoncello	55	8'	73	"	metal
Flute d'Amour	usual	4'	73	"	w & m
Harmonic Piccolo	usual	2'	61	"	metal
Charinet	usual small scale	8'	73	"	reed
Cor Anglais	usual	8'	73	"	"
Open Diapason	46-43	8'	73	"	metal

Harf - 49 notes to be installed for 6 months on approval.

CHOIR ORGAN COUPLERS.

Choir	16'
Choir	8'
Choir	4'
Swell to Choir	16'
Swell to Choir	8'
Swell to Choir	4'
Solo to Choir	16'
Solo to Choir	8'
Solo to Choir	4'

Eight adjustable combination pistons to control Choir stops & couplers.

SOLO ORGAN. 15" wind.

Flauto Major	usual	8'	73	pipes	wood
Stentorphone	40-37 with 1/5 mouth-leathered	8'	73	"	metal
Major Gamba	55	8'	73	"	"
Gamba Celeste	55	8'	73	"	"
Flute Overtone	usual scale	4'	73	"	wood
Tuba Profunda	} 7 1/2"	16')			
Harmonic Tuba		8')	85	"	reed
Tuba Clarion		4')			
Tuba Magna		8'	73	"	"
Tremolo	(Fan Type)				

Solo	16'
Solo	8' (Unison Off)
54 Solo	4'

Five adjustable combination pistons to control Solo stops & couplers.

ECHO ORGAN. 5" wind.

To be placed in the Alcove on the right hand side of the Sanctuary and playable from the Choir Manual of the main Console in the Gallery.

To be enclosed in a Swell Box & under control of the Solo Organ Balanced Pedal.

#3 Gedeeck	1 bar	8'	61	pipes	wood
Wack Celeste #1		8'	61	"	metal
Wack Celeste #1	- voice soft -	8'	61	"	metal
Wack Celeste #1	provide room for speech	8'	61	"	metal
Cathedral Chimes	Loaned for 6 months	8'	61	"	metal
Tremolo					

The couplers on the Choir Manual will also affect this section in the same manner as it affects the Choir organ.

Three adjustable combination pistons affecting Echo Organ.

PEDAL ORGAN. Echo 5" wind

Sub Bass	(Extended) pedal	16'	12	pipes	20 notes	wood
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PEDAL ORGAN. (Gallery) 7" wind except Augmented. as noted.

Double Open Diapason	ext. of 16' 2nd open #3 scale	32'	68	pipes	wood
First Open Diapason	#1 scale	16'	32	"	"
Second Open Diapason	#3 (From Great)	16'	32	notes	"
Violone	(From Great)	16'	32	"	w & m
First Bourdon	Sub-Bass scale	16'	44	pipes	wood
Second Bourdon	(From Great)	16'	32	notes	"
Police Bourdon	(From Swell)	16'	32	"	"
Quint	(From Bourdon (44) 10 2/3	32'	32	"	"

PEDAL ORGAN (GALLERY) Continued.

✓ Gross Flute	{ From 32' }	8'	32	notes	wood
✓ Flauto Dolce	{ From Bourdon (Aunt)	8'	32	"	"
✓ Violoncello	{ From Solo } <i>Barrel + Celeste</i>	8'	32	"	metal
✓ Octave Flute	{ From 32' }	4'	32	"	wood
✓ Bombarde	9" on 15" wind	16'	32	pipes	reed
✓ Tuba Profunda	{ From Solo } <i>on 15" wind</i>	16'	32	notes	"
✓ Harmonic Tuba	{ From Solo }	8'	32	"	"
✓ Tuba Clarion	{ From Solo }	4'	32	"	"
✓ Fagotto	{ From Swell Horn }	16'	32	"	"

Swell to Pedal	8'
Swell to Pedal	4'
Great to Pedal	8'
Choir to Pedal	8'
Solo to Pedal	8'
Solo to Pedal	4'
<i>Great to Pedal</i>	4'

Six adjustable combination pedals to control Pedal stops & couplers.

ACCESSORY.

- ✓ Balanced Crescendo Pedal, adjustable, not moving registers
- ✓ Balanced Swell Pedal
- ✓ Balanced Choir, Great & ~~Choir~~ Pedal *and Echo*
- ✓ Balanced Solo Pedal
- ✓ Great to Pedal, Reversible
- ✓ Solo to Great, Reversible
- ✓ Sforzando Pedal, with lamp indicator

NOTE -

RIGHT EXTRA ADJUSTABLE COMBINATION PISTONS OVER UPPER MANUAL CONTROLLING ENTIRE ORGAN INCLUDING COUPLERS.

All adjustable combination pistons and pedals are adjustable by the organist while seated at the console. They all visibly affect the registers.

NOTE -

SPECIAL AUSTIN PATENT CANCELER BARS placed over each group of stop-keys.

HB The Chimes in the Echo Organ are on approval & to remain in the organ for 6 months.

A Harp to be installed on approval for 6 months, in Choir 49 notes

A. O. Co. to provide all ducts, wiring, etc. necessary to the complete installation

CHESTS AND SYSTEM

The "Austin Universal Air Chest System" (patented) is to be used providing the only perfect supply of air in unvarying pressure and quantity to the pipes under all conditions of use. Each pipe has its own individual valve opening directly from the Universal Chest; the valves, therefore, and mechanism operating them are immediately accessible by entering the chests by means of air-tight doors and without removing any parts. Pressure to each pipe guaranteed 100%.

VOICING

The perfect and unvarying pressure supplied by the Austin Universal Chest to the pipes gives a basic advantage in our voicing, as variations of pressure or quantity vary the stability and and power and timbre.

The voicing is to be of the highest quality throughout, special study being given to the building and its acoustics. Refinement and delicacy with characteristic timbre are to be supplied in the softer and intermediate stops with marked dignity and pervasive power in the louder ones.

Our wide experience in building many of the world's largest organs, a wealth of scientific data which we have carefully accumulated and the unusual facilities we have in voicing equipment, place us in a position to supply a uniform excellence in voicing which we believe cannot be equaled.

METAL PIPES

All metal pipes (excepting those used in rebuilding old organs) are to be made in the Austin factory, and to their perfected scales. Pure tin and pure lead, are used in the metal pipes mixed by us to our formulas in proportions found best in our experience. 90% block tin is used in our smaller scaled orchestral strings. A special alloy has been perfected by us for our Diapasons, which are made especially heavy to produce ample volume without the undesirable coarseness too prevalent in such stops where a saving in metal is made.

Bases are made of best annealed zinc of ample thickness with inserted toes, mouths and tuners.

Reeds are also all made in our factory to our special design and scales including blocks, eschallots, tongues and tuning wires. Milled brass reed wedges to be used and Phosphor Bronze tuning wires.

WOOD PIPES

All wood pipes to be made in our factory (excepting those used in rebuilding old organs). The best quality of soft white pine to be used including Pedal pipes. All pipes to be glue sized inside and shellaced outside. Metal toed feet to be used up to $\frac{3}{4}$ bore and voicing slides in all larger sizes. Compressed cork recessed in all large stoppers to be used instead of felt.

SWELL BOXES

Are to be double construction $2\frac{1}{2}$ " thick, consisting of two tongued and grooved partitions of best quality hard pine with space between framing stuffed with sound-proofing material. Swell blinds are to be horizontal, hung in non friction rolling bearings, eliminating friction and squeaking. Blinds of patented steel plate construction with sound proofing material between, padded with triple recessed felting. Pressed steel arms.

Patented electro pneumatic engines for operating blinds giving even crescendo, with easy foot motion of swell pedals.

PASSAGE-WAYS to be provided for easy access to pipes for tuning. (All action is also accessible from inside air chest, which is possible only with Austin system).

INTERIOR FINISH All wood work of the organ to be finished with best orange shellac or varnish or both, as best for the various parts to protect them from atmospheric moistures. Special care to be taken in design and construction, so that the normal swelling and shrinking of lumber has the least possible effect.

CASE WORK to be of best quartered oak or other native wood as may be desired, finished in harmony with other furniture. Design of case to be made and submitted for approval.

FRONT PIPES made of best quality, annealed zinc of ample weight with inserted mouths. Finish to be French Gold Bronze, specially applied or plain polished zinc lacquered.

ACTION Austin patented electro pneumatic, including pedal action and stop action. All magnets and pneumatics accessible inside air chest. Individual valves for every pipe but pneumatics common only to each key. All magnets made and wound in Austin factory, and all small parts also guaranteed so uniform as to be inter-changeable. (Various parts of action protected by patents)

KEYBOARDS Standard scale, 61 notes, C to C best ivory with ebony sharps.

PEDAL BOARD radiating and concave, 32 notes C to G White maple naturals with sharps capped with solid ebony.

ORGANISTS BENCH heavy solid construction with heel rest and music shelf.

CONSOLE latest improved Austin type (four patents granted) Others pending.

(1) Direct electric in all its mechanism, no wind used in it or any pneumatics.

(2) Complete in itself containing all coupler and combination mechanism.

(3) Smaller than any other console containing the coupler combination mechanism.

(4) Built on steel frame independent of wood casing insuring unchanging alignment of mechanism.

(5) Its parts are so perfect that they are interchangeable.

(6) Its keyboards hinge upward so that all contacts and wire connections are perfectly accessible.

(7) Few minutes work will remove the entire casing, leaving the mechanism accessible from all sides and still in complete playing order.

(8) Eight combination pistons are supplied, affecting each manual and pedal; eight general combinations above the upper manual and six combination pedals for the pedal organ. All combination pistons or pedals move the registers.

(9) The combinations can be arranged as any Organist may desire or order; all can be arranged to affect all stops and couplers of the entire organ if desired.

(10) All combination pistons or pedals are readily adjustable by merely moving the registers to the desired combination while the piston is held in or the pedal held down.

(11) The touch of the combination pistons and pedals is as light as desired; they merely make a contact; electric energy does the work.

(12) The combination pedals are of entirely new form; a firm touch of the foot is only required instead of the more laborious downward stroke.

(13) Our new patented cancelers are provided. These are hinged strips running the length of each group of register keys; a touch anywhere along the length of this strip throws all registers of the group off.

These are particularly valuable in individual registration, as one downward stroke will give any one stop desired regardless of what other stops may be on, or their position.

(14) Our new patented "deluxe" key touch is provided. This is lighter at the bottom of the dip than at the top. Our standard is 4½ oz. at the top and 2½ oz. at the bottom. This gives greater ease in playing and yet provides sufficient resistance at the top of the dip to prevent "slurring" or premature firing of the action. This touch is accomplished without any complicated additional mechanism.

(15) The registers or stop keys of a greatly improved pattern, being wider at the base with a narrower part at the tip. There is, therefore, no danger of striking the wrong key or of hitting two instead of one. The printing is one third larger and, therefore, plainer than that found on draw knobs.

(16) The electric contacts are made of a special alloy of precious metal, made to our formula which has proved to be the most reliable and durable after long endurance tests.

BLOWING APPARATUS electric blowing plant supplied of proper capacity and power to supply ample wind at proper pressures, under all conditions of use.

GENERATOR electric generator supplied driven from the motor to supply low voltage direct current for the organ action, obviating the use of batteries.

CABLES all electric cables and wiring of the organ action (low voltage) supplied and installed.

IN FINE All workmanship and material to be of the best and the entire organ to represent the highest standard of perfection, musically and mechanically, for which the AUSTIN organ is notable.