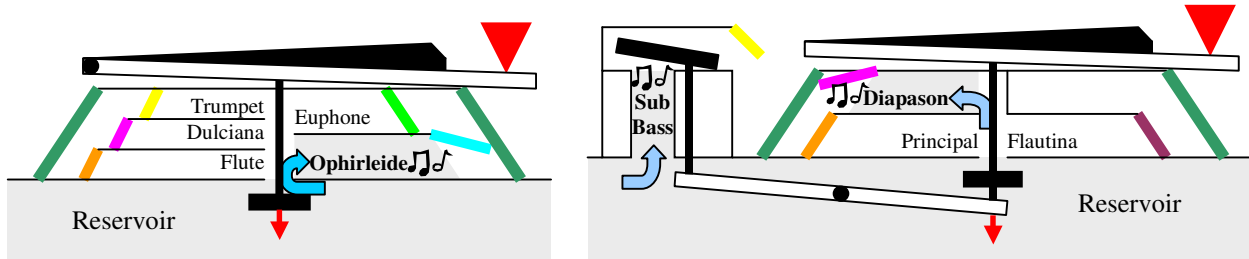


## Bridgeport Organ ser. no. 39018

This organ was acquired by Frank Berauer for his wife Ho Pheng in Sept. 2002 from a second hand dealer in Salem, Oregon, USA, who bought it at an estate sale. It has been subsequently shipped to Singapore and restored. Bridgeport Organ Co. was in operation 1877 – 1899 and this organ was made in the late 1880ies (probably 1888). The case is Mahogany.

### Function:

This is a suction reed organ. Pumping with the foot pedals evacuates a reservoir, which then sucks air through the opened set(s) of reeds when a key is pressed. There are nine sets (separate ones for bass - lower 24 keys, two octaves - and treble - higher 37 keys, three octaves) with altogether 274 reeds. Pulling active stops activates the corresponding set of reeds. Passive stops alter the sound generated.




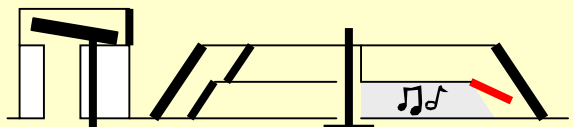

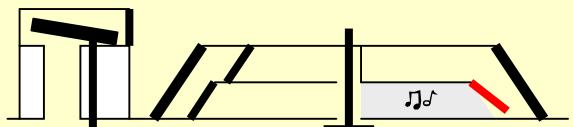
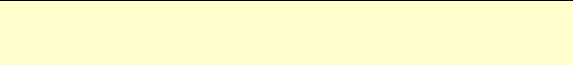

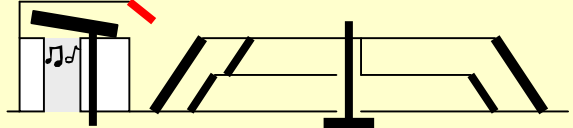
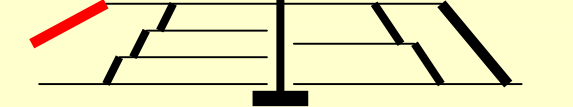
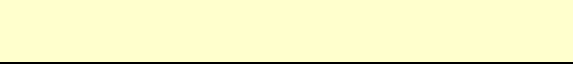

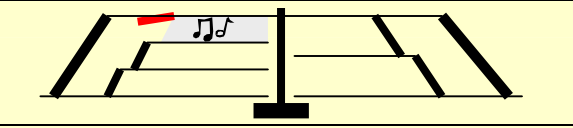

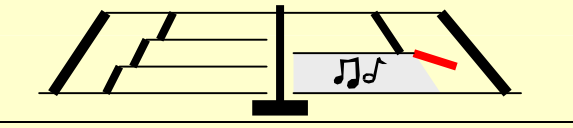

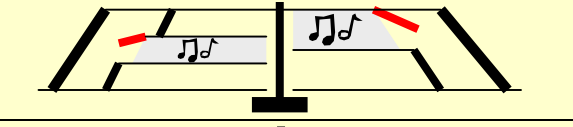

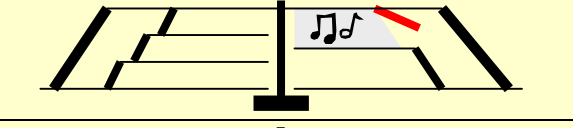

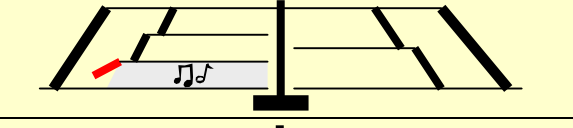

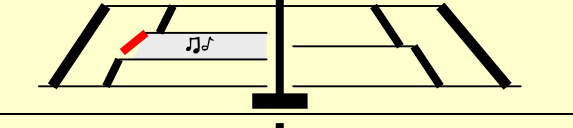

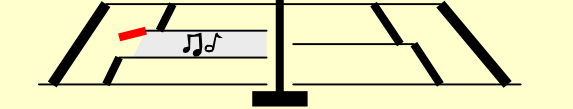
Treble Reed Assembly (Ophirleide open)

Bass Reed Assembly (Sub Bass and Diapason open)

To achieve the same sound over all five octaves of the keyboard, the following pairs of bass/treble reeds can be used: Diapason/Dulciana (or Dulcet/Echo), Principal/Flute, Sub Bass/Trumpet.

### Table of Stops and Knee Swells (♫ denominates active stops for ♭ bass keys and ♪ treble keys):

Name	Function	Remark
Left Knee Swell ♫		Opens <i>all</i> stops. Orchestral sound. <i>fortississimo</i>
Right Knee Swell		Opens Swell Caps. Louder, voluminous sound. <i>forte</i>
Diapason 8' ♭♫		Opens Diapason (back upper bass) reeds.
Dulcet 8' ♭♫		Opens Diapason reeds <i>slightly</i> (muted sound).
Principal 4' ♭♫		Opens Principal (back lower bass) reeds.

<b>Flautina</b> 2' 		Opens Flautina (front bass) reeds. Higher bass octave.
<b>Hautboy</b> 2' 		Opens Flautina reeds <i>slightly</i> (muted sound for high overtones)
<b>Octave Coupler</b>		Activates octave coupling rods, adding higher octave to sound.
<b>Sub Bass</b> 16' 		Opens Sub Bass assembly reeds. Lower bass octave. <i>No reeds for lowest 7 keys!</i>
<b>Diapason Forte</b>		Opens back swell cap.
<b>Vox Humana</b>		Activates vibrato (by mechanical cardboard fan).
<b>Trumpet</b> 16' 		Opens Trumpet (back upper) reeds. Lower treble octave.
<b>Ophirleide</b> 8' 		Opens Ophirleide (front lower) reeds.
<b>Celeste</b> 8' 		Opens Euphone <i>and</i> Dulciana reeds.
<b>Euphone</b> 8' 		Opens Euphone (front upper) reeds.
<b>Flute</b> 4' 		Opens Flute (back lower) reeds. Higher treble octave.
<b>Echo</b> 8' 		Opens Dulciana reeds slightly (muted sound).
<b>Dulciana</b> 8' 		Opens Dulciana (back middle) reeds.