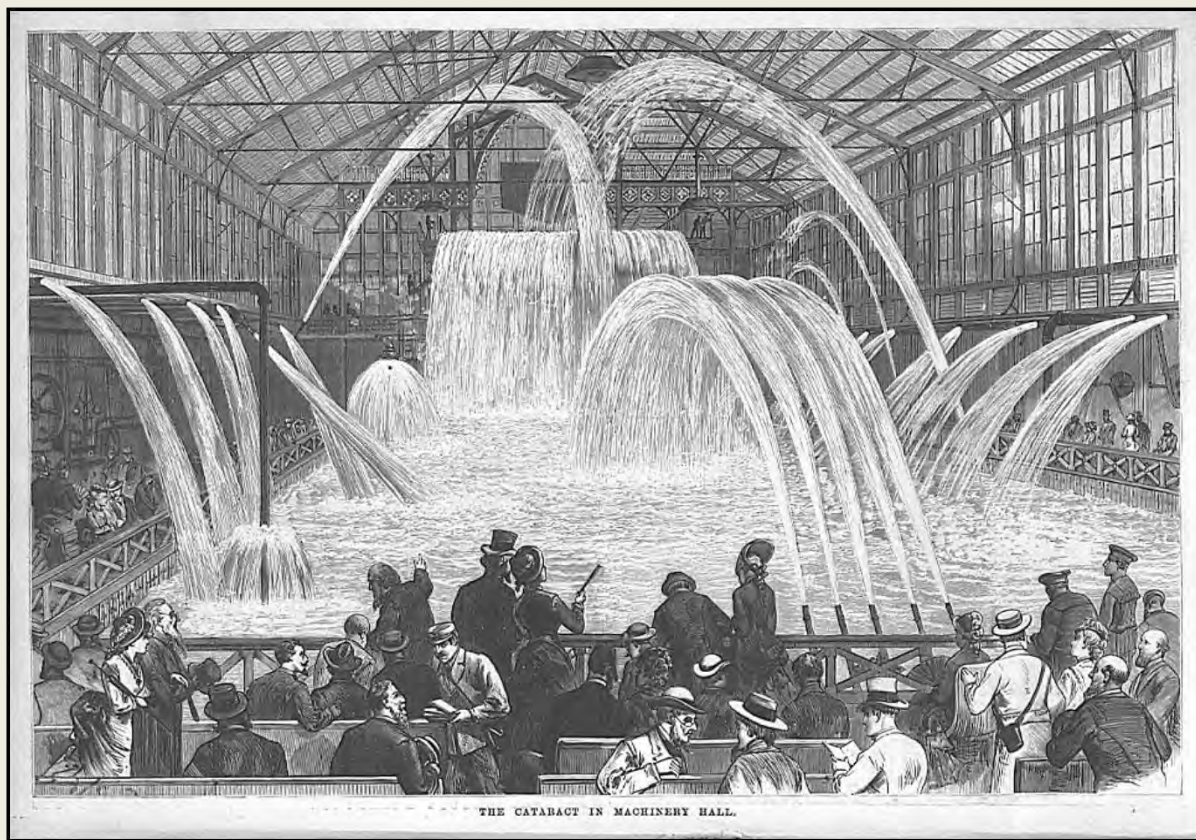


Italian Water Garden





THE CATABACT IN MACHINERY HALL.

“The basin in Machinery Hall was captivating beyond description with its jets of all kinds spurting like mad and without cease...I could have remained all day beside this pool in Machinery Hall” ~Pierre du Pont, describing his visit at age six to the 1876 Centennial Exposition in Philadelphia



A visit to the Villa Gamberaia in Italy in 1913 inspired the formal design of the Italian Water Garden.



Villa Gamberaia was the inspiration of the fountain's overall layout. Pierre du Pont also incorporated many more fountain jets in the style of fountains he had seen at Generalife-Alahambra and Versailles.

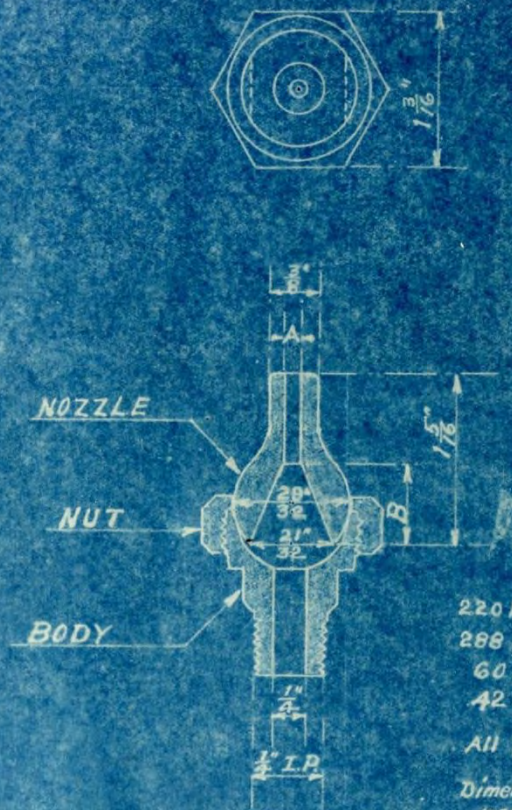
Generalife – Alahambra, Spain



Mr. and Mrs. du Pont enjoyed entertaining their friends and family
at the Italian Water Garden.

Pierre du Pont sketched the design himself, calculated the grading and water circulation for the project, pumping requirements, water flow and number of jets for each fountain.

Photos of these drawings and calculations are in the Heritage Exhibit.



SWIVEL NOZZLE

220 Pcs. with Dimension A	1/8 inch.
288 " " " "	A 3/16 "
60 " " " "	A 7/32 "
42 " " " "	A 1/4 "

All A Dimensions must be SMOOTH.

Dimension B take 5/8" on 1/8" size:
proportionately shorter on larger sizes.

TRENJER SPECIALTY CO.
TRENTON, N.J.

4/20/27



Twelve pumps supply the 600 water jets with 1,500 gallons of water per minute.

The tallest fountain jet is
able to shoot 40 feet
into the air.

Most of the pumps
are connected to a
computerized wind sensor
system which opens a
valve to lower displays
when wind is high.





The façade of the Italian Water Garden features whimsical fountains, decorative urns, and other features inspired by Italian design.



Close up of the decorative ornaments found along the Niche Wall



This aerial image taken in 1970, shows the 14 foot difference in length between the front and rear pools. Pierre du Pont took into account the foreshortening perspective, when gazing down on the extended landscape from the observation terrace.



The Sylvan Fountain in Peirce's Woods is also connected to the Italian Water Garden pump house system.