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Introduction

Herbert Lee Seward (1885-1966) was an educator, naval architect and marine engineer who was born in Guilford, Connecticut. During his life he held a number of varied posts including being the Assistant to the President of the American Bureau of Shipping in New York City; Director of the New York Shipbuilding Corp, in Camden, New Jersey; and member of the Advisory Commission on U.S. Lines, Inc. Mr. Seward also taught at Yale University, and wrote a number of articles and papers dealing with ship construction and related marine matters, and was in 1923 the author of the textbook, **Construction of Diagrams for Engineering Formulas** and in 1942 the editor of the two volume work, **Marine Engineering**, a standard reference tool which went through eight printings until 1968. Mr. Seward died in Old Saybrook, Connecticut, a well-known and respected individual in naval and marine circles.

General Description

The Seward Collection was deposited at Maritime College around 1960. It is composed of three Series, these being Blueprints, Specifications, and Subject File, this latter consisting of miscellaneous documents revolving around a number of subjects in one way or another dealing broadly with maritime matters. The total volume of the Collection is approximately 9 and 3/4 cubic feet. The largest group of records is that of Blueprints (5 and 3/4 cubic feet), followed by the Subject File (3 and 1/2 cubic feet), and then Specifications (one half of a cubic foot). The blueprints in the Collection are, for the most part, rather fragile due to their being oversized. We note that though many of the miscellaneous documents in the Subject Series may be considered ephemeral, we believe that the booklets among them are probably the only extant copies to be found, and thus are rather unique from this stand point.

The Seward Papers ,in archival parlance, can be properly termed a Collection in that for the most part, these documents were collected by Mr. Seward and not generated by him. His interest in his field led him to collect or acquire, probably through other naval architects whom he knew or whom he had met, most of the materials in this collection, especially, the blueprints of one of the leading firms of the 19th and early 20th centuries, William Cramp & Sons. These, in all probability, would have been lost if not for his interest. Also, the documents in the Subject Series were probably a mixture of a few of his own papers coupled with those of Horace H. Thayer, a naval architect, and to a lesser extent from another naval architect, Axel Rossell, and these individuals were probably the ones from whom most of the materials in this Collection were acquired. This can be determined from internal evidence (eg., the Index Volume listed below; plus such Subjects listed below as "Propellers", "Rat Proofing" and "Shipyard Data" which bear the name of Thayer; and the Subject, "Miscellaneous", which bears a note stating "given me by Thayer & Rossell"). Thus, it would appear that Mr. Seward received much of this material from naval architects Mr. Horace Thayer and Mr. Axel Rossell. It is known from a document in the Subject "Shipyard Data" that in the 1920s, Mr. Thayer had an office in the Witherspoon Building in Philadelphia and that Mr. Rossell was associated with the firm Messrs. Rossell & Thayer at 119 South Fourth Street, also in Philadelphia, the same city where the William Cramp firm was located.

I. WILLIAM CRAMP & SONS BLUEPRINTS

Introduction to blueprint section

In this Series are found approximately 235 blueprints drawn by the Philadelphia shipbuilding firm of William Cramp and Sons. This firm, a well-known and leading company in its time, was founded by William Cramp (1807-1879), and was commissioned over the course of years to build a variety of ships for various companies, cities, or, in a few cases, foreign countries. First known simply as the William Cramp Shipbuilding Co., the firm's name in 1872 was changed to the William Cramp & Sons Ship & Engine Building Co. to reflect the participation of some of his sons in the firm. During the period when the majority of blueprints in this Collection are dated, the firm was under the management of William's son, Charles Henry Cramp (1828-1913) who had begun to work in his father's shipyard in 1846.

During much of the firm's existence, the shipbuilding industry was undergoing some radical changes, especially the change of replacing wooden vessels with those made with iron and later with steel. These changes also involved machinery, a new industrial organization, and a new science of naval architecture and construction.

Charles Cramp was directly responsible for the construction of about two hundred vessels of various types. It was during his tenure that the U.S.S. "Ironsides" was launched, a ship which historians stated was the most powerful ironclad of its time, and which participated in more naval engagements during the Civil War than any other United States vessel.

Charles Cramp is known to have written at least one article on his profession. It was a brief but incisive analysis of the history of shipbuilding and the major changes affecting it in the 19th century. It appeared in an 1895 book edited by Chauncey M. Depew titled **One Hundred Years of American Commerce 1795-1895**.

In 1915 the Company passed out of the hands of the Cramp family and was bought by the American Ship and Commerce Corporation. There were some subsequent changes or mergers but by 1946 all activities ceased at the Cramp shipyards and the name officially passed into history.

Description of blueprint section

The approximately 230 blueprints in this Series are dated principally in the decades of the 1900s and 1910s, though several are dated outside this parameter. For the most part, these blueprints were folded into booklet form (ca. 8" x 11") with a cover, and it is on the basis of these booklets that the number above is given.

The booklet more often than not contains more than one blueprint, these, of course, being related to one another depicting different portions of the same vessel (for example, the "Outboard Section" or the "Mid Section", and so forth). However, it is on the basis of booklets that the above figure of 235 is given. To reiterate, there are 235 booklets containing blueprints, many of which, however, contain more than one blueprint.

When the blueprints are unfolded out of the booklet, many appear to measure as large as about 78" x 29" . Some may be smaller, some larger. Because of their oversize, many of these items are in fragile condition, and often torn at the seams.

Each booklet bears a number relevant to the record keeping practices of the firm, and some booklets also identify the name of the vessel. When the name is not so given on the booklet cover, we have obtained it from the blueprint itself. Also, for the most part, the type of vessel (Passenger and Cargo, for example), will be indicated, as well as the engineering concept involved (single screw, for example). For all the blueprints in the List to follow, this information will be provided whenever known. Also given will be the date found on the blueprints. Very occasionally, when a booklet contains more than one blueprint, a date on one may differ from a date on the companion piece. Whenever this occurs and has been noticed by the archivist the two dates will be indicated on the List. Usually, the dates are not far apart but fall within a year or two of each other. We should also note here that the date has been obtained always from the lower right hand area of the blueprint, the area that usually contains the vital information. On rare occasions, a thorough examination of the item may reveal another date on some other portion, but we have not considered these as a primary or substantial date. Also, on rare occasions, a date has been difficult to decipher with complete accuracy due to some fading of the document. The vast majority of the blueprints appear to refer to the Hull of a ship, that is, the frame or body of a ship.

Though many blueprints are labelled as being a "Proposal", apparently a proposal for a hull, many are labelled as "Hull", and

it
is difficult to determine why these are marked differently since there is no evident difference in the complexity or workmanship depicted on the blueprints. Perhaps, the Proposals were that and nothing more and no final determination had been made as to how they might be changed.

As previously stated, all blueprints bear a number (which is the number of the Hull or Proposal which the firm assigned), and the List which follows is arranged in that numerical sequence, and for complete accuracy each number will be identified as to whether it is a Hull Number or a Proposal Number. Sometimes the booklet containing the blueprints will have more than one number, and usually this is because more than one vessel is concerned. A number which is repeated (e.g., 304 and 361 in the following List), one for the Hull, and one for Proposal) does not necessarily mean that the same ship is being discussed. It is also pointed out here that after number 428, all booklets are identified as being Proposals and none are titled Hulls. A more strictly chronological arrangement is also found, that is, lower numbers, for the most part, have earlier dates than the later numbers, a condition that did not prevail earlier. We also note that some of the booklets will have the phrase "copied in book" written on them. The significance, if any, of this phrase cannot be determined, and perhaps it may have been a notation of Seward's for his own notes or it may refer to a manuscript volume titled **Record of Proposed Vessels Index** described below; or, perhaps, that Seward made some use of these items in the volume he edited, **Marine Engineering**, though this, I feel, is the least likely explanation. On a minor note, on rare occasions, the abbreviation "SS", or the word "steamship" ("steam ship") may appear on the cover of a blueprint, while the word steamer" may be on the blueprint itself or vice versa. These terms are interchangeable, and have no special significance in the List which follows.

Also included here is a Volume titled **Record of Proposed Vessels Index**. In the mid portion of this volume is a section called "General Index of Proposed Numbers" in which the number of the Blueprint is listed, followed by a very brief description of the vessel to which it pertains. The beginning section of the volume contains the names or descriptions of the vessels by type, followed by the Hull Number. This volume has not been thoroughly examined to see if blueprints exist for all the numbers listed or examined in any other way to try to correlate information in it with blueprints in the Collection. Only about half of the volume has been utilized. On the fly leaf of the volume is a notation (presumably in the hand of Seward) reading "A gift from Axel Rossell, Naval Architect and Horace H. Thayer, Naval Architect". The volume measures ca. 8? inches by 10? inches. All notations are in manuscript.

Box 1 (Cont'd)

#

296-297- Hull - Twin Screw Passenger and Fruit Steamer
298-299 ADMIRALS DEWEY-SAMPSON-SHLEY & FARRAGUT
for the United Fruit Company
1902

300 Hull - Twin Screw (or Triple Screw?) First Class
Battleship (RETVIZAN) for the Imperial
Russian Navy
1913

301 Hull - Protected Cruiser for the Imperial Russian
Government Lines
1913

Box 2

304 Proposal - Ice Breaking Steamer for the City of
Philadelphia
1905

304-305- Hull - Twin Screw Passenger and Cargo Steamers
306 SIERRA, SANOMA & VENTURA for the Oceanic
Steam Ship Co. of San Francisco
1904

307 Hull - 100 Ton Floating Crane for the Brooklyn
Navy Yard
1913

308 Hull - Steel Caisson for the Boston Navy Yard Dry
Dock
1913

309 Proposal - Unidentified - probably a tug boat

309-310 Hull - Twin Screw Passenger and Cargo Steamers
ESPERANZA and MONTEREY for the New York
and Cuba Mail Steam Ship Co.
1902

310 Proposal - Single Screw Steel Cargo Steamer for the
American and Hawaiian Steamship Co.
1905

311 Proposal - Single Screw Freight Steamer for
Mr. Stevenson Taylor of New York
1905

Box 2 (Cont'd)

311-312 Hull - S.S KROONLAND and FINLAND built for the

International Navigation Company
1902

- # 312 Proposal - Twin Screw Passenger and Cargo Steam Ship
 for The Southern Pacific Steam Ship Co.
 Atlantic Steam Ship Line
 1905
- # 313 Proposal - Single Screw Cargo Steamer for the New
 York and Cuba Mail Steam Ship Co.
 1905
- # 313-314 Hull - Single Screw Passenger and Freight
 Steamers APACHE and ARAPAHOE built for the
 Clyde Steam Ship Co.
 1902
- # 318 Hull - Single Screw Oil Tank Steamer COL. E. L.
 DRAKE built for the Standard Oil Co.
 1903
- # 319 Hull - Single Screw Cargo Steamer HURON for the
 Clyde Line Steam Ship Co.
 1902
- # 320 Proposal - Twin Screw Passenger and Cargo Steamer for
 the New York and Cuba Mail Steam Ship Co.
 1906
- # 320 Hull - Twin Screw Passenger Steamer ASBURY PARK
 built for the Central Railroad of New
 Jersey
 1903, 1908
- # 321 Hull - Single Screw Cargo Steamer KIOWA built for
 the Clyde Steam Ship Co.
 1903
- # 322 Hull - United States Armored Cruiser TENNESSEE
 1913
- # 323 Hull - Philadelphia Harbor Tug Boat M.S. QUAY
 1903
- # 327 Proposal - Triple Screw Turbine Freight Steamer for
 The New England Navigation Co.
 1905

Box 2 (Cont'd)

- # 327-328 Hull - United States Battleships IDAHO and
 MISSISSIPPI
 1913
- # 329 Hull - Single Screw Cargo Steamer MOHICAN for the

Clyde Line Steam Ship Co.
1906

Box 3

- # 330-331 Hull - Single Screw Cargo Steamers CHIPPEWA and ONONDAGA for the East Caicos Co. Ltd.
1906
- # 332-335 Hull - Twin Screw Passenger and Cargo Steamers MERIDA and MEXICO for the New York and Cuba Mail Steam Ship Co.
1906, 1908
- # 333 Hull - Triple Screw Ice Breaking Steamer for the City of Philadelphia
1906
- # 336 Proposal - Single Screw Freight and Passenger Steamer for the Clyde Steam Ship Co.
1906
- # 336-337 Hull - Transfer Tugs Nos. 19 and 20 for the New York, New Haven and Hartford Rail Road Co.
1913
- # 338 Proposal - Twin Screw Passenger and Cargo Steamship for the Munson Line
1906
- # 338-339 Hull - Single Screw Passenger and Cargo Steamers MOMUS and ANTILLES for the Southern Pacific Steam Ship Co.
1908, 1910
- # 340-341 Hull - Twin Screw Passenger and Cargo Steam Ships HAVANA and SARATOGA for the New York and Cuba Mail Steam Ship Co.
1907, 1908
- # 342-343 Hull - Twin Screw Freight Steamers for the New England Navigation Co.
1910

Box 3 (Cont'd)

- # 342-343- Hull - Steam Ships MASSACHUSETTS, BUNKER HILL,
344 and OLD COLONY
1908
- # 343 Proposal - Single Screw Cargo Steamer for the Clyde Steam Ship Co.
1906
- # 344 Hull - Triple Screw Freight Steamer for the New

- England Navigation Co.
1910
- # 345 Hull - Single Screw Freight Steamer for the
 Clyde Steam Ship Co.
 1913
- # 346 Hull - United States Battleship SOUTH CAROLINA
 1913
- # 347 Proposal - Single Screw Collier for Messrs. Bowring
 Co. of New York
 1906
- # 347 Hull - Floating Derrick for Southern Pacific
 Steam Ship Co.
 1911
- # 348 Proposal - Floating Derrick Pontoon for the Brown
 Hoisting Co.
 1906
- # 348 Hull - Side Wheel Passenger Steamer for the New
 England Navigation Co.
 1909, 1914
- # 349 Proposal - Twin Screw Passenger and Cargo Steamer
 for the Mollory Line
 1906
- # 349 Hull - Single Screw Passenger and Freight
 Steamer MOHAWK for the Clyde Steam Ship
 Co.
 1908, 1910
- # 350 Proposal - Steel Oil Barge for the Standard Oil Co.
 1906
- # 352-353 Hull - USTB Destroyers WARRINGTON and MAYRANT
 1914

Box 3 (Cont'd)

- # 352 Proposal - Single Screw Passenger and Cargo
 Steamship for Mr. Bonver of Philadelphia
 1906
- #354 Proposal - Single Screw Oil and Cargo-Carrying
 Steamers for Mr. John W. Gates
 1906

Box 4

- #355 Hull - U.S. Twin Screw Collier CYCLOPS
1909-1910, 1911
- #356-359 Hull - Dump Barges for the Isthmian Canal
Commission
1911
- #358 Proposal - Single Screw Oil Tank Steamer for the
Associated Oil Co.
1906
- #360 Hull - Steel Derrick Barge for Southern Pacific
Co.
1911
- #361 Proposal - U.S. Lighthouse Tender TULIP
1906
- #361 Hull - U.S.T.B. Destroyer US PATTERSON
1913
- #362 Proposal - U.S. Light House Tender CYPRESS
1905
- #363 Proposal - U.S. Light House Tender MANZANITA
1906
- #365 Proposal - Single Screw Passenger & Freight Steamer
for the Maine Steam Ship Co.
1906
- #365 Hull - Unnamed and unidentified vessel,
evidently, a battleship
1913, 1914
- #366 Proposal - Single Screw Passenger & Freight Steamer
for the Maine Steam Ship Co.
1906

Box 4 (Cont'd)

- #366 Hull - Coal Barge for Panama Rail Road Co.
1913
- #367-368 Hull - Steel Car Floats for the New York Dock
Co. Also included is a 7 page booklet of
Specifications (1910)
1912
- #370-373 Hull - Steel Car Floats for the Pennsylvania
Rail Road Co. Also included is an 18
page booklet of Specifications (1910)
1911
- #373 Proposal - Single Screw Passenger & Freight Steamer

for the Clyde Steam ship Line
1907

- #374-375 Hull - Steel Car Float for the Pennsylvania Rail Road Co. Also included is a 13 page booklet of Specifications (1910)
1911
- #376 Proposal - Unnamed U.S. Lighthouse Tender
1907
- #376-377 Hull - Steel Car Floats for the Delaware Lackawanna & Willmington Rail Road Co. (D.L. & W.)
1911
- #378 Proposal - Single Screw Cargo Steamer for the Southern Pacific Co.
1907
- #378 Hull - Twin Screw Freight Power Boat for the Guffey Petroleum Co.
1911
- #379 Hull - U.S.T.B. Destroyer U.S.S BEALE
1913
- #380 Hull - Twin Screw Protected Cruiser CUBA for the Cuban Government
1911, 1913
- #381 Hull - Gunboat for the Cuban Government Lines
1913

Box 4 (Cont'd)

- #383-386 Hull - U.S.T.B. Destroyers U.S.S. AYLWN, BENHAM,
BALCH and PARKER
1913
- #386 Proposal - Single Screw Cargo Steamer for the
Southern Pacific Steam ship Co.
1907

Box 5

- #387 Proposal - Seagoing Sand and Rock Barges for the
Isthmian Canal Commission
1907
- #387-389 Hull - 160ft. Coal Barges for the Leigh Valley
Railroad
1913
- #388 Proposal - Ocean Going Tug boat for the Puget Sound
Tug Boat Co.
1907
- #390-391 Proposal - Steel Coal Barge for the Leigh Coal and
Navigation Co.
1907
- #390-392 Hull - 175 foot Coal Barges for the Leigh Valley
Railroad
1913
- #393 Hull - Cargo & Passenger Steamer for W.R. Grace
& Co.
1913
- #394-399 Hull - Steel Coal Barges for U.S. Navy
1913
- #400-402 Hull - Cargo Steamers SANTA CLARA, SANTA
CATALINA, SANTA CECILIA for the W.R.
Grace Co.
1913
- #403 Hull - USS Gunboat SACRAMENTO
1914
- #404-406 Hull - USTB Destroyers U.S.S. O'BRIEN, NICHOLSON
and WINSLOW
1916

Box 5 (Cont'd)

- #407-408 Hull - Express Passenger Steamers (one identified as TSS GREAT NORTHERN 1913, 1914, 1915
- #409-418 Hull - Steel Coal Barges for the U.S. Navy 1913
- #412 Proposal - Single Screw Colliers for the U.S. Navy 1908
- #414 Proposal - Single Screw Colliers for the U.S. Navy 1908
- #416 Proposal - Single Screw passenger & Freight Steamer for Messrs. Alonso, Dumont & Co. 1908
- #417 Proposal - Twin Screw Colliers for the U.S. Navy 1908
- #419 Hull - U.S.S. CONYNGHAM 1916
- #420 Hull - U.S.S. PORTER 1916
- #421 Hull - Car Ferry Steamer for the Florida & East Coast Railroad Co. 1914
- #422 Proposal - Contains no name or date, perhaps refers to the CYCLOPS
- #422 Hull - USTB Destroyer U.S.S WILKES undated

Box 6

- #424 Proposal - Steel Dump Barges for the Isthmian Canal Commission 1908
- #424-426 Hull - Dump Barges for the Isthmian Canal Commission 1916

Box 6 (Cont'd)

- #425 Proposal - Single Screw Cargo Steamer for the Union Sulphur Co.
1909
- #427 Proposal - 325 ft. Steel? Car Float for the Delaware Lackawanna & Wilmington Rail Road Co.
(D.L. & W.)
1908
- #427 Hull - Steam Ship SANTA BARBARA
1916
- #428 Proposal - Car Float for the NYP & NRR Co.
1908
- #428 Hull - The J.M. DANZIGER
1917
- #429 Proposal - Unidentified
- #429-430 Hull - The S.S JALISCO and the S.S. COAHUILA
1916
- #434-435 Unidentified
1915-1916-1917
- #436 Proposal - Single Screw Freighter Steamer
(manuscript note attached bearing name of Horace H.Thayer, NA. & M.E., Whitterspoon Building, Philadelphia, PA. 1942, Exhibit A)
undated
- #436-437 Hull - Unidentified
1915
- #437 Proposal - Single Screw Cargo Steamer for the Union Sulphur Co.
1909
- #438 Proposal - Steel Steam Auxiliary Schooner for the Coast Transit Co.
1909
- #440 Proposal - 100 Ton Steel Deck Barge for the Belmont Iron Works
1909

Box 6 (Cont'd)

- #444 Proposal - Single Screw Freight & Passenger Steamer
for the Ocean Steamship Co. of New York
1909
- #445 Proposal - Single Screw Steel Tug for the Delaware,
Lackawanna & Wilmington Rail Road Co.
(D.L.& W.)
1909
- #446 Proposal - Steel Coal Barge for the D.L. and W. R.R.
Co.
1909
- #447 Proposal - Covered Steel Barge for the D.L. and
W.R.R. Co.
1909
- #448 Proposal - Single Screw Passenger & Freight Steamer
for the Wilmington Steamboat Co.
1909
- #449 Proposal - Single Screw Freight Steamer for the
Southern Pacific Steam Ship Co.
1909
- #450 Proposal - 1000 Ton Bulk Oil Barge for the Texas
Co., of New York
1909
- #451 Proposal - Steel Harbor Barge for the Texas Co. of
New York
1909
- #452 Proposal - Single Screw Cargo Steamer for the
American-Hawaiian Steamship Co.
1909
- #453 Proposal - Single Screw Cargo Steamer for the A.H.
Bull Steamship Co.
1909

Box 7

- #454 Proposal - Unidentified - perhaps the GENERAL GEORGE
H. WEEKS

Box 7 (Cont'd)

- #458 Proposal - Passenger & Freight Steamer for the Maine Steamship Co.
1909
- #460 Proposal - Tug Boat for the Pennsylvania Railroad Co.
1909
- #462 Proposal - Coal Barge for the Panama Railroad Co.
1909
- #463 Proposal - Single Screw Cargo Steamer for the George Hall Coal Co.
1909
- #466 Proposal - Twin Screw Passenger & Freight Steamer for the Atlantic City Transportation Co.
1909
- #471 Proposal - Steel Single Screw Tug Boat for the United Fruit Co.
1909
- #472 Proposal - Single Screw Freight Steamer for the Philadelphia & Gulf Steamship Co.
1909
- #475 Proposal - Single Screw Tugboat for the New York Dock Co.
1909
- #476 Proposal - Steel Car Float for the New York Dock Co.
1910
- #477 Proposal - Car Float for the Baltimore & Ohio Railroad Co.
1909
- #480 Proposal - Tug Boat for the Pennsylvania Railroad Co.
1910
- #483 Proposal - 250 ft. Steel Car float for the Pennsylvania Railroad Co.
1910
- #484 Proposal - Unidentified

Box 7 (Cont'd)

- #485 Proposal - Steel Car Float for the NYP and NRR Co.
1910
- #487 Proposal - Steel Harbor Barge for the Waters Pierce
Oil Co.
1910
- #489 Proposal - Sea Going Rock and Sand Barge for the
Isthmian Canal Commission
1910
- #490 Proposal - Passenger & Cargo Steamer for L.W. and
P. Armstrong
1910
- #491 Proposal - Freight & Passenger Steam Ship for the
Merchants and Miners' Transportation Co.
1910
- #492 Proposal - Single Screw Freight Steamers for the
New York and Porto Rico Steamship Co.
1910
- #498 Proposal - Double Screw Ferry Boat for the
Pennsylvania Rail Road Co.
1910
- #499 Proposal - 250 ft. Steel Car Float for the
Pennsylvania Rail Road Co. (PRR)
1910
- #500 Proposal - Single Screw Cargo Steamer for the New
York and Porto Rico Steam Ship Co.
1910

Box 8

- #506 Proposal - Car Float for the Delaware Lackawana and
Wilmington Rail Road Co.
1910
- #508 Proposal - Twin Screw Passenger & Freight Steamer
for the Mississippi Valley and Orient
Steam Ship Co.
1910

Box 8 (Cont'd)

- #511 Proposal - Single Screw Composite Training Vessel
for the Cuban Navy
1910
- #512 Proposal - Twin Screw Composite Revenue Cutter for
the Cuban Navy
1910
- #514 Proposal - Steel Bulk Oil Harbor Barge for the
Tidewater Oil Co.
1910
- #515 Proposal - Motor Driven Oil Barge for the J.M.
Guffey Petroleum Co.
1910
- #521 Proposal - Coal Barge for the Staples Transportation
Co.
1910
- #523 Proposal - Fast Passenger & Freight Steamer for the
New York & Cuba Mail Steam Ship Co.
1911
- #530 Proposal - Lumber Barge for the Laguna Corporation
1911
- #533 Proposal - Steel Lighter for the Independent Pier
and Transportation Co.
1911
- #534 Proposal - Floating Dry-Dock for the Babcock &
Wilcox Co.
1911
- #536 Proposal - Bulk Oil Barge for the Standard Oil Co.
1911
- #537 Proposal - Single Screw Freight & Passenger Steamer
for the Clyde Line
1911
- #539 Proposal - Single Screw Passenger & Cargo Steamer
for the Alaska Steam Ship Co.
1911
- #541 Proposal - Single Screw Freight Steamer for the
Baltimore and Caroline Steam Ship Co.
1911

Box 8 (Cont'd)

- #542-C Proposal - Single Screw Cargo Steamer for
Mr. George F. Cameron
1911
- #547 Proposal - Side Wheel Freight & Passenger Steamer
Proposed to Compania Anomina Navegacion
Fluvial y Costanera de Venezuela by the
Pusey and Jones Co., Wilmington, Delaware
1911
- #551 Proposal - Side Wheel Steamer for the Nantasket
Beach Steamboat Co.
1911
- #552 Proposal - Single Screw Cargo Steamer for the
American-Hawaiian Steam Ship Co.
1911
- #554 Proposal - Single Screw Passenger & Cargo Steamer
for the Alasca Steam Ship co.
1911
- #556 Proposal - Single Screw Cargo Steamer for the Union
Sulphur Co.
1912
- #557 Proposal - Single Screw Cargo Steamer for the
Philadelphia-Gulf Steam Ship Co.
1911

Box 9

- #560 Proposal - Single Screw Cargo Steamer for W.R. Grace
and Co.
1911
- #561 Proposal - Single Screw Oil Tank Ship for the
Southern Pacific Co.
1911
- #562 Proposal - Single Screw Cargo Steamer for the Havana
Coal Co.
1911
- #564 Proposal - Sea Going Tug for the Philadelphia &
Reading Transportation Co.
1912

Box 9 (Cont'd)

- #565 Proposal - Car Float for the Brooklyn Eastern
District Terminal
1912

- #566 Proposal - Passenger and Cargo Steamer for the Pacific Mail Line
1912
- #567 Proposal - Seagoing Tug for the Lehigh Valley Rail Road Co.
1912
- #570 Proposal - Bulk Oil Steamer for the Standard Oil Co.
1912
- #571 Proposal - Bulk Cargo Steamer for Mr. E.H.B. Anderson-Parsons Turbine Co.
1912
- #576 Proposal - Steel House Barge for the NYP and NRR
1912
- #589 Proposal - Single Screw Cargo Steamer for the Old Dominion Steam Ship Co.
1912
- #591 Proposal - Steel Oil Barge for the Texas Co.
1914
- #594 Proposal - Passenger & Freight Steamer for the Red "D" Line
Undated
- #606 Proposal - Passenger & Freight Steamer for Mr. A.G. Smith
1912-1913
- #618 Proposal - Bulk Oil Barge for the Anglo-Mexican Petroleum Products Co.
1913
- #619 Proposal - Bulk Oil Barge for the Anglo-Mexican Petroleum Products Co.
1913
- #622 Proposal - Dump Barges for the Isthmian Canal Commission
1913

Box 9 (Cont'd)

- #624 Proposal - Single Screw Cargo Steamer for the Mallory Steam Ship Co.
1913
- #625 Proposal - Triple Screw Passenger Cargo-Steamer for the Hamburg American Line
1913

#628 Proposal - Passenger & Freight Steam Ship for the
Florida and East Coast R W Co.
1913

#629 Proposal - 36 Car Ferry for the Florida East
Coast R Y Co.
1912

Box 10

#632 Proposal - Steel Car Ferry for the NYP and NRR Co.
1914

#635 Proposal - Single Screw Cargo Steamer for the
Hamburg American Line
1913

#636 Proposal - Twin Screw (or Triple Screw?) Supply Ship
No. 1 for the United States Navy
1913

#637 Proposal - Twin Screw (or Triple Screw?) Transport
No. 1 for the United States Navy
1913

#638 Proposal - Twin Screw (or Triple Screw?) Collier(s)
for the Isthmian Canal Commission
1914

#639 Proposal - United States Sea-Going Tugs SONOMA and
ONTARIO
1914

#647 Proposal - Oil Steamer for the Anglo-Saxon Petroleum
Co. Limited
1914

Box 10 (Cont'd)

- #649 Proposal - 750 Tons Deadweight, 190' x 47' x 10'
 Proposed Barge for the Isthmian Canal
 Commission
 1914
- #650 Proposal - 500 Tons Deadweight, 158" x 39' x 10'
 Proposed Barge for the Isthmian Canal
 Commission
 1914
- #656 Proposal - Twin Screw (or Triple Screw?) Motor
 Lumber Vessel for Messrs. Boorman &
 Boorman
 1914
- #657 Proposal - Car Float for the Leigh Valley Rail Road
 Co.
 1914
- #659 Proposal - Bulk Oil Carrying Steamer for Sun Oil
 Co. (S.O.) Co.
 1914
- #660 Proposal - Single Screw Passenger and Cargo Steamer
 for Munson Steam Ship Line
 1914
- #661-A* Proposal - Floating Crane Pontoon for the Morgan
 Engineering Co.
 1915
- #661-B* Proposal - Floating Crane Pontoon for the Cleveland
 Crane Engineering Co.
 1915
- #661-C* Proposal - Floating Crane Pontoon for the Wellman-
 Seaver-Morgan Co.
 1915
- #667 Proposal - Bulk Oil Barge for the Huasteca Petroleum
 Co. of New York
 Undated

*** These three documents are bound together in one volume**

Box 11

- #672 Proposal - Bulk Oil Carrying Steamer for the Texas Oil Co.
Undated
- #673 Proposal - 1000 Cubic Yards Dump Scow for Panama Canal Commission
Undated
- #676 Proposal - Single Screw Bulk Oil Steamer for the Sun Oil Co. (S.O.) of New York
undated
- #682 Proposal - Single Screw Bulk Oil Steamer for the Sun Oil Co.
Undated
- #691 Proposal - Single Screw Passenger and Cargo Steamer for the Ocean Steam Ship Co.
1915
- #701 Proposal - Single Screw Freight Steamer for the New York and Cuba Mail Steam Ship Co.
1916?
- #713 Proposal - Single Screw Cargo Steamer for the Royal Dutch West India Mail - French, Edye & Co. Agents
1915
- #720 Proposal - Single Screw Passenger & Cargo Steamer for W.R. Grace & Co.
1916
- #721 Proposal - Single Screw Freight Steamer for the Society les Affreteurs Reunis
1916
- #731 Proposal - Panama Canal Colliers
Undated

Miscellaneous (no
assigned number or
designation)

Twin Screw Passenger & Cargo Steamers
HAVANA and SARATOGA for the New York &
Cuba Mail Steam Ship Co.
1913

Steam Ship REPUBLIC
1923 or 1928
(This item bears the name of Gibbs
Brothers, Inc. rather than Cramp)

No ship name indicated
1917
(This item bears the name of Pacific Boat
Co. rather than Cramp)

THOR
1889
(This item apparently in Scandinavian)

Box 12H

Volume - Record of Proposed Vessels Index

II. Specifications

There are nineteen individual Specifications in this Sub-Group, and these essentially are similar in physical format. They consist of soft cover loosely bound volumes about (8" x 11" in size) varying from about seven or eight pages to about seventy-five pages. Many are typed but some appear to be carbon copies. Eleven Specifications are dated 1919, three are dated 1920, and five are undated but in all probability drawn up in 1919.

Ten of these Specifications were drawn by the Bethlehem Shipbuilding Corporation, Ltd, while five others were executed by the United States Shipping board Emergency Fleet Corp. Another was drawn up by the American Shipbuilding Co. The authorship of the remaining three Specifications is not clear, that is, it is not certain if the Bethlehem Corporation drew them up or if another company was drawing for Bethelhem. Below follows a listing of these items. Titles are taken directly as given on the covers of these Specifications, as is any other information to help describe them. We also note that in three instances, Nos. 15, 17 and 19, notations, presumably in Seward's hand indicated that the documents were intended for the Subject File under the Subjects Boilers (for Nos. 15 and 17) and Marine Engines (for 19). We also note that most bear the name of Rossell on them.

Box 13

1. Outline Specifications For Single Deck Shelter Deck Cargo Steamer To Carry 8500 Tons Dead- weight. Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa.
June 5, 1919
2. Outline Specifications For a Steel, Single Screw, Bulk Oil Carrying Steamer of 3800 Tons Dead Weight Capacity. Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa.
July 18, 1919
3. Outline Specifications For Single Deck Shelter Deck Cargo Steamer To Carry 8500 Tons Deadweight and Fitted with Turbine Machinery and Oil Burning. Bethlehem Shipbuilding Corporation, Ltd, Bethlehem, Pa.
Aug. 1, 1919

4. Outline Specifications For Single Deck Shelter Deck Cargo Steamer to Carry 8500 Tons Deadweight and Fitted with Reciprocating Engines and Coal Burning. Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa.
Aug. 1, 1919
5. Outline Specifications For a Twin Screw Passenger and Freight Steamer For the Compagnie Centrale Transatlantique. Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa.
Sept. 12, 1919
6. Specifications For a 10,200 Ton Deadweight Single Screw Steel Bulk Oil Steamer to be built by Bethlehem Shipbuilding Corporation, ltd. (Sparrows Point Plant) Baltimore, Md. for the Vacuum Oil Co. Builders Hull No. 4203.
Oct. 1919
7. Specifications For a Single Screw Passenger and Freight Steamer for the Baltimore Steam Packet Company of Baltimore, Md. Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa.
Dec. 1919
8. Specifications For Four 12,620 Tons Deadweight Single Screw Steel Bulk Oil Steamers to be built by Bethlehem Shipbuilding Corporation Ltd., One at Fore River Plant, Quincy, Mass.; Three at Sparrows Point Plant, Sparrows Point, Md. for the Atlantic Gulf and West Indies Steam Ship Line Inc. Builder's Hull No. 1395 (Fore River Plant), Builder's Hull Nos. 4204-5-6 (Sparrows Point Plant).
1919
9. Specifications For One 10,100 Ton Deadweight Single Screw Steel Bulk Oil Steamers to be built by Bethlehem Shipbuilding Corporation, Ttd. Union Plant, Alameda, Cal. for Standard Transportation Company. Builder's Hull No. 5304.
1919
10. Specifications For A Steel Car Float To Carry Twenty-Four Rail Road Cars, 42'-0" Long Over All. Bethlehem Shipbuilding Corp. Ltd., Bethlehem, Pa.
May 1920

11. Specifications For A Steel Car Float To Carry Twenty-Two Rail Road Cars 42' 0" Long Over All. Bethlehem Shipbuilding Corp. Ltd., Bethlehem, Pa.
May 1920
12. Outline Specifications For A Single Screw 3000 Tons Dead Weight Cargo Steamer for the Government Of Tasmania. The Bethlehem Shipbuilding Corp. Ltd., Bethlehem, Pa.
May 1920
13. Specifications of Steamers Nos. 725-726-727-728-729-730-731-732-733-467-468-469-470-211-212-213-214-215-216-217-218-219-220--85-86=530-531. The American Shipbuilding Company.
Undated
14. Outline Description Of A Proposed 20000 Tons Dead Weight Ore and Oil Carrying Vessel.
Undated
15. United States Shipping Board Emergency Fleet Corporation Specifications of a Standard Marine Water Tube Boiler of approximately 700 Horse Power. (Published as Bulletin Number 101).
June 14, 1919
16. United States Shipping Board Emergency Fleet Corporation Description of the Three Pass Standard Water Tube Boiler built in accordance with Specification 133. (Published as Bulletin 101A Superceding Number 101).
Undated, but material
"Revised to March 16,
1918"
17. United States Shipping Board Emergency Fleet Corporation Description of the Four Pass Standard Water Tube Boiler built in accordance with Specification 373 Revised to August 10, 1918. (Published as Bulletin 101B Superceding Bulletin 101)
Undated,
ca. Sept. 1918
18. United States Shipping Board Emergency Fleet Corporation Specifications of a 1400 Horse Power Marine Engine. (Published as Bulletin 172)
June 13, 1919
19. United States Shipping Board Emergency Fleet Corporation Specifications Of An 800 Horse Power Vertical Triple Expansion Marine Engine. (Published as Bulletin Number 174)
Undated

III. Subject File

This Subject File was created* either by Mr. Seward or perhaps, more likely Mr. Thayer since his name appears from time to time on some documents, or perhaps a combination of the two. Among some of the subjects which contain documents on which Mr. Thayer's name is found are Propellers, Refrigerated Ships, Shipyard Data (which also contains a letter addressed to Messrs. Rossell & Thayer), and Wire Rope. A variety of documents are found in this Subject File but mainly blueprints (some of which are the color white) of varying sizes but smaller than the ones listed in Series I, and some of which contain extensive notes written on their body); booklets and magazine tear sheets. On occasion are found some letters, memos and miscellaneous documents. All deal in one way with the broad subject, Ships. Not all subjects contain all these varying types of documents indicated above. No subject is very extensive. In all there are 70 subjects, and the contents of each file is briefly described below.

* In two or three instances because of the complete disarray of some materials, the archivist had to create a relevant subject or select a subject for a document.

Box 14

1. Anchors & Chains

Typed report (including several original photographs),
dtd May 18, 1944 on the History & Data of Danforth
Anchors"; Equipment Tables, und.; two blueprints, dtd 1943
& 1947; five miscellaneous blueprints and data sheets.
Undated

2. Barges

Three miscellaneous publications issued by the Dravo Contracting
Co. of Pittsburgh, Pa. ca. 1930-1940; brochure issued by
the Kelley Spear co. of Bath, Me. listing vessels built by
them, dtd ca. 1918; and large blueprint drawn by Naval
architects and engineers, Whittelsey & Whittelsey of New
York City for Standardized harbor and Sand Oil Barges. Dtd
1919

3. Barkentine

Two blueprints of "Barkentine Ferris Type Hull". Dtd
1919

4. Bilge Keels

Typed report by Kenneth S.M. Davidson titled
"Seaworthiness With Special Reference to Bilge Keels".
Dtd May 18, 1945

5. Bollards, Cleats & Chocks

Six blueprints. Dtd ca. 1916-1922

6. Car Floats

Three blueprints. Dtd ca. 1914-1920

7. Cargo Handling Gear

Two blueprints. Dtd 1918

8. Cargo Volume Data

Publication of U.S. Government Printing Office titled "Table of
Unit Displacement of Commodities"; and a Circular of the
Bureau of Standards. Dtd ca. 1919?

Box 14 (Cont'd)

9. Concrete Ship

Several magazine tearsheets, dtd 1943-1944; Publication of U.S.
government Printing Office titled "Concrete Ships as

collected by the Committee on the Merchant Marine and Fisheries", dtd 1917; several blueprints dtd ca. 1917-1920; and some miscellaneous documents, dtd 1919-1920 (2 folders)

Box 15

10. Cylinders

Four blueprints depicting cylinders designed and built by the Newport News Shipbuilding and Dry Dock Co. of Newport News, Virginia. Undated, ca. 1930-1940s

11. Diesels

Two pamphlets issued by the General Motors Corp., und, ca. 1945; and a printed form letter from the Cleveland Diesel Engine Division of General Motors Corp.

12. Dredges

Several miscellaneous pamphlets and magazine tearsheets; and one blueprint. Dtd ca. 1930s-1940s

13. Dry Dock

Three magazine tearsheets; and publication titled "Dry Dock & Marine Railway Rules and Regulations", prepared by the U.S.S. B.E.F.C. Dtd 1920 & 1924

14. Fire Boats

Two blueprints, dtd ca. late 1920s early 1930s; and booklet produced by General Motors Corp., titled "Chicago's New Fire Boats", dtd ca. 1949-1950

Box 15 (Cont'd)

15. Fruit Carrying Ships

Carbon copy of typescript headed "Outline Specifications of Proposed Fruit Carrying Ship"; and three Blueprints. Dtd ca. 1919

16. Hopper Dredges

"Specifications for Seagoing Hopper Dredges Hains and Hoffman - Hull No. 204 - ", issued by the marine Division of the U.S. Engineer Office at Philadelphia. Dtd. 1940

17. Hulls

Three blueprints and stencil copy of detailed? Specifications. Dtd ca. 1944

18. Ice Breakers

Tearsheet from the periodical, "Marine Engineering". Dtd Sep 1920

Box 16

19. Inclining Experiment

Published Paper by Rear Admiral J.G. Tawresey read at general meeting of Naval Architects and Marine Engineers, 1928; five photographs, dtd 1919; and various data sheets regarding a number of experiments conducted 1919-1920

20. Insurance

Brochure (broadside format) issued 1943 by the Edward R. Hughes Co. of New York, insurance brokers, titled "Hulls-Crews-Cargoes 1942" and listing significant dates and events regarding the firm. Dtd Dec 1941 to Dec 1942

21. Insurance Forms

Several miscellaneous forms or other documents in Broadside format including an "Index to New York Standard Fire Insurance Policy...", copyrighted 1896

Box 16 (Cont'd)

22. Joiner Work

60 sheet (blueprint paper) document titled Work Lumber Schedule for Standard Wood Steamship"; and 22 sheet blueprint regarding Dtd

ca. 1920s-1930s

23. Launching

Report titled "Side Launching Test 6000 D.W.T. Steel Cargo Vessel" (several original photographs included); and three magazine tearsheets. Dtd ca. 1917

24. Launching Calculations

Several blueprints loosely bound together and titled "Launching Calculations - Specimen Sheet for Stern Launchings of Large Vessels - with explanatory notes and sketches. Dtd ca. 1917

25. Life Rafts

Flyer issued by the Winner Manufacturing Co. of Trenton, N.J. Dtd ca. 1941

26. Lighters

Blueprint dtd ca late 1920s-early 1930s

27. Merchant Ships

Booklet titled "Dominion Monarch" (a ship built by Swan, Hunter & Wigham Richardson, Booklet titled **The New Type Marine Merchant Ships**, presented by Farrell - Birmingham Co. of Buffalo, New York; Typescripts of two papers delivered before the Philadelphia Section of Naval Architects and Marine Engineers; and several magazine tearsheets. Dtd ca. 1939-1945

28. Merchant Ships-Tonnage Evaluation

25 sheet Blueprint Book giving "Calculation of Design or "Y" Factor For Use in Evaluation of U.S.S.B. Tonnage, dtd 1921

Box 16 (Cont'd)

29. Miscellaneous

"Marine Progress" magazine, dtd Oct. 1940; several long narrow blueprints drawn by William Cramp & Sons stapled together and titled Booklet of **General Plans for the U.S.S. SIBONEY and ORIZABA**, undated; document listing **Drafts and C.G. in Launched Completed Conditions**, dtd May 20, 1919; two manuscript leaves from a small notebook perhaps listing a few ship parts purchased, und, ca. 1930s; and two typewritten leaves, perhaps from a small notebook, listing owner and architect, and bidder on a ship, dtd 1932. These materials may have been intended for the subject, "Transports".

Box 17

30. Oakum

Book titled **Useful Facts About Oakum & Kindred Products**, issued by the George Stratford Oakum Co. of Jersey City, New Jersey. Dtd 1920

31. Oil Fuels

Oil Fuel, a paper presented at the International Engineering Congress held Sept. 1915 at San Francisco, California and published in book form.

32. Paddle Wheels

Tearsheet from periodical, **International Marine Engineering**.
Dtd July 1920

33. Propeller Design

Blueprints; Data Sheets; and Miscellaneous Publications. Dtd
ca, 1919-1930

34. Propeller Performance

Magazine tearsheet; and Data Sheet. Dtd 1920

Box 17 (Cont'd)

35. Propeller Struts

Two Blueprints. Dtd 1919

36. Propellers

Blueprints; Magazine Tearsheets; and Miscellaneous Documents.
Dtd ca. 1920-1950

37. Propelling Machinery

Typescript of paper by Mr. R.J. Walker, read before the North
East Coast Institution of Engineers and Shipbuilders. Dtd
1920

38. Pumps

Miscellaneous **Bulletins** issued by the United States Shipping
Board Emergency Fleet Corp. regarding specifications.
Undated, ca. 1920s

39. QUEEN MARY

Special Section from **The Christian Monitor** of May 12, 1936;
Broadside regarding "Ships For Sale"; two miscellaneous
flyers; sample of The Rustless Monel Nail that holds like a
screw". Dtd ca. 1948-1949

40. Radio Telephone

Two pamphlets titled **The ABC of Electronics at Work** (ca. 1942);
and **Marine Radio Telephony** (1947); and a blueprint dtd 1917

41. Radojet

Specification of Radojet Equipment issued by the United States
Shipping Board Emergency Fleet Corp. Undated, ca. 1918

42. Rat Proofing

Government Printing Office publication titled **The Rat Proofing
of Vessels**, dtd 1927; a Supplement issued to the same, dtd
1931; and cover letter, dtd 1931

Box 17 (Cont'd)

43. Reduction Gears

Magazine tear-sheet; Reprint of an article titled **Marine Steam Power Plants**; miscellaneous document containing a few notations. Dtd 1920, 1924, ca. 1940

44. Refrigerated Ships

Manuscript Notes and Blueprints. Dtd ca. 1917-1919

45. Refrigerating Machinery

Miscellaneous Specifications published or in typescript. Dtd ca. 1918-1920

46. Releasing Gear - Life Boat

Pamphlet titled **Hunt Detaching Gear for Lifeboats**; and Blueprint. Undated., ca. 1920

Box 18

47. Repair Contracts

Repair Order, and General Order issued by the United States Shipping Board Emergency Corp. Dtd 1920

48. Revolution Counters

Publication issued by the Electric Tachometer Corporation of Philadelphia titled **Propeller Revolution and Engine Speed Indicator and Counter Systems for Marine Use**. Dtd 1946

49. Rigging

Blueprints, photographs and magazine tear sheet, dtd 1918-1919; and blueprint copy of paper read by F.P. Knowles before the Newport News Branch of the American Society of Marine Draftsmen in 1913

Box 18 (Cont'd)

50. Schooners

Typescript giving "Specifications for the Construction of 236 Foot Wooden Cargo"; Typescript giving "Specifications for a Four Mast Schooner"; and Tear Sheet from the Journal, "International Marine Engineering". Dtd ca, 1918-1920

51. Self-Unloading Vessels

Magazine tearsheets and letter. Dtd 1928, and 1932

52. Shallow Drafts

Tear Sheet from "International Marine Engineering", dtd 1915; and Catalog issued by the James Rees and Sons Company of Pittsburgh, dtd 1913

53. Shipyard Data

Brochure issued by the Federal Shipbuilding Co. of Kearny, New Jersey; about a dozen carbon copies of Letters sent by various shipbuilding companies addressed for the most part to General George W. Goethals of the Emergency Fleet Corporation; and Miscellaneous Publications. Dtd ca. 1917-1922

54. Shipyards

Blueprints and Maps issued by the United States Shipping Board Emergency Fleet Corp., Division of Shipyard Plants. Dtd ca. 1917-1919

55. Shipyards-Locations

Two Maps published by the United States Shipping Board Emergency Fleet Corp., Statistical Section. Dtd ca. 1919

56. Small Vessels

Pamphlet titled **How to Build a Boat With Nails**, issued by the Independent Nail and Packing Co. of Bridgewater, Mass. Dtd 1955

Box 18 (Cont'd)

57. Stability

Publication issued by the U.S. Government Printing Office titled **Stability and Loading of Ships**; Tear sheet from magazine **Marine Age**; and blueprint. Dtd 1920, 1926, and 1942

58. Standardized Merchant Ship - Oil Tanker

Publication issued by the Joint Board for the Design of Standardized Merchant Vessels, U.S. Departments of the navy and of Commerce, titled **Tanker Series No. 1, June 16, 1936**

Box 19

59. Towboats

Magazines and Magazine Tear Sheets; Flyers; and "Specifications For Constructing One, Two, Three, or Four 56-FT All-Welded Steel Tugs. Dtd ca. 1931-1949
(2 folders)

60. Trawls

Magazine, "Diesel Times"; Magazine tearsheets; Flyer; and Newspaper Clipping. Dtd ca. 1944-1948

61. Trial Trip Specifications

Mimeographed Report headed "Torpedo Boat Destroyer - Conner - Memorandum for Tests, Office of the Superintending Constructor for the United States Navy, The William Cramp & Sons' Shipbuilding Company, Philadelphia, Pennsylvania". Undated, ca. 1930s

62. U.S. Shipping Board

Several Blueprints? giving "Trial Trip Data" for a number of ships; and Blueprints. Dtd 1918-1919
(2 folders)

Box 20

63. U.S. Government Small Vessels

Four Flyers (two are broadside type) issued by Dulien Steel Products, Inc. of Seattle. Dtd ca. 1948-1949

64. Water Tube Boilers

About 50 Blueprints and Instructions loosely bound. Undated., ca. 1920s

65. Welding

Pamphlet titled **Thermit Welding**, published by the Metal and Thermit Corporation of New York in 1926; and pamphlet titled **Welding Manual**, published by the Ingalls Iron Works Co., et al, und, ca. 1930s

66. Wire Rope

About 100 Blueprints loosely bound in large book format. Dtd ca. 1919

67. Wooden Ship Photographs

Four Photographs measuring ca.7?" x 9?", three of which depict construction process, and one evidently depicting a completed deck. Two are identified as Jahncke Shipbuilding Co. of New Orleans. Dtd ca. 1919

68. Wooden Ships

Book titled **The Elements of Wood Ship Construction**, pub. by the U.S. Shipping Board Emergency Fleet Corp. in 1918; Book titled **The Building of a Wooden Ship**, by Charles G. Davis, published by the U.S. Shipping Board Emergency Fleet Corp. in 1918; published Paper presented at annual meeting of the American Society of Mechanical Engineers "Emergency Fleet Corporation Water-Tube for Wood Ships", by F.W. Dean and Henry 1919; loosely bound in small book printed form "General Instructions and Recommendations for the Construction of the 2500 Ton Wood Hulls". It is noted in this latter volume that "In general, these instructions... are an amplification of the Emergency Fleet

Box 20 (Cont'd)

68. Wooden Ships (Cont'd)

Corporation's Plans and Specifications", und., ca. 1918;
Blueprint for Standard Roller Chock for "Standard Wood
Steamships For U.S. Shipping Board Emergency Corporation.",
dtd 1918
(2 folders)

69. Workboats

Carbon copy of Letter from the Kennebec Boat & Canoe Co. of
Waterville, Maine to the U.S. Shipping Board Emergency
Fleet Corporation, dtd Feb. 6, 1918 attached to Blueprint
for "Proposed 16 ft. Work Boat to be built by the Co.; copy
of a Blueprint for " 'A' Ship 18' Working Boat Hull
Fittings...". Dtd 1918

70. Yachts

Four Letters addressed to Horace H. Thayer, Jr. in Haverford,
Pennsylvania from the Henry J. Grelow Co.; and one Letter
from the Albany Boat Co. Dtd 1928. Two letters contain
enclosures while the other three are brochure/letters, that
is, the letter is typed directly on the verso of one
portion of the brochure. Also included in this Subject is
titled **A New Conception of Diesel-Electric Drive**, dtd 1937;
another Brochure titled **SAVARONA, the Largest Diesel Yacht
Afloat**, und, ca. late 1920s; and a copy of the **Winton News**,
a trade newsletter, dtd 1929

CONTAINER LIST (Shelf List)

For Staff Use Only

Box 1

Series - Blueprints - Nos. 207 to 301
Extent - Nos. 207 to 301
No. of Folders - 17
Remarks - All Blueprints in this Box and all the Boxes in this Series are usually in fragile condition. When examined, they should be done so on a large flat surface to prevent further tearing along seams

Box 2

Series - Blueprints
Extent - Nos. 304 to 329
No. of Folders - 22

Box 3

Series - Blueprints
Extent - Nos. 330-331 to 354
No. of Folders - 24

Box 4

Series - Blueprints
Extent - Nos. 355 to 386
No. of Folders - 25

Box 5

Series - Blueprints
Extent - Nos. 387 to 422
No. of Folders - 21

Box 6

Series - Blueprints
Extent - Nos. 424 to 453
No. of Folders - 25

Box 7

Series - Blueprints
Extent - Nos. 454 to 500
No. of Folders - 23

Box 8

Series - Blueprints
Extent - Nos. 506 to 557

No. of Folders - 22

Box 9

Series - Blueprints
Extent - Nos. 560 to 629
No. of Folders - 21

Box 10

Series - Blueprints
Extent - Nos. 632 to 661-C
No. of Folders - 15

Box 11

Series - Blueprints
Extent - Nos. 672 to 731, and Miscellaneous
No. of Folders - 14

Box 12H

Series - Blueprints
Extent - Volume, **Record of Proposed Vessels Index**

Box 13

Series - Specifications
No. of Folders - 19

Box 14

Series - Subject File
Extent - Anchors & Chains to Concrete Ship
No. of Folders - 10

Box 15

Series - Subject File
Extent - Cylinders to Ice Breakers
No. of Folders - 9

Box 16

Series - Subject File
Extent - Inclining Experiment to Miscellaneous
No. of Folders - 11
Remarks - The Subject "Inclining Equipment" contains two copies of the Paper and the Subject, "Insurance", contains two copies of the Brochure. Also, the Subject, "Insurance Forms" contains a document which appears to be among the very earliest to be repaired with the use of cellophane or "scotch" tape

Box 17

Series - Subject File
Extent - Oakum to Releasing Gear, Lifeboat
No. of Folders - 17
Remarks - The Subject, "Propelling Machinery", contains two copies of the Typescript

Box 18

Series - Subject File
Extent - Repair Contracts - Shipyard Data
No. of Folders - 12
Remarks - The Subject, "Shallow Drafts", contains an early example of a Bilingual document. Also, the subject, "Shipyard Data", contains two copies of The Brochure, and is noteworthy for the letters addressed to the pioneer Canal Builder, General George W. Goethals

Box 19

Series - Subject File
Extent - Shipyards - United States Shipping Board
No. of Folders - 6

Box 20

Series - Subject File
Extent - Water Tube Boilers - Yachts
No. of Folders - 9
Remarks - The Subject, "Wooden Ships", contains two copies of the Published Paper, very fragile blueprints and an example of a blueprint printed backwards

APPENDIX A

LIST OF VESSELS AND COMPANIES NAMED ON BLUEPRINTS

Below follows a list of the various vessels and companies found on the Blueprints in this Collection. Names of the vessels are capitalized, companies are not. Occasionally, the names of a few companies vary slightly as given on the blueprints. Thus, for example, you will find Texas Company (of New York) signifying that on the relevant blueprints the name given may be with or without the bracketed information on one or another blueprint. Regarding the designation "Government", we have not been specific as to which branch is involved, but essentially, it can be said that the Navy branch of that particular government was the unit for which the blueprint was being drawn.

A.H. Bull Steamship Company
ADMIRAL DEWEY
ADMIRAL FARRAGUT
ADMIRAL SAMPSON
ADMIRAL SHLEY
ALABAMA
Alasca Steam Ship Company?
Alaska Steam Ship Company
Messrs. Alonso, Dumont & Company
American and Hawaiian Steamship Company
Mr. E.H.B. Anderson-Parsons Turbine Company
Anglo-Mexican Petroleum Products Company
Anglo-Saxon Petroleum Company Limited
ANTILLES
APACHE
ASBURY PARK
Associated Oil Company
ATLANTA
ARAPAHOE
L.W. and P. Armstrong
Atlantic City Transportation Company
AYLWN
Babcock & Wilcox Company
Baltimore & Carolina Steam Ship Company
Baltimore & Ohio Railroad Company
BEALE
BALCH
Belmont Iron Works
BENHAM
Mr. Bonver of Philadelphia
Messrs. Boorman & Boorman
Messrs. Bowering Company of New York
Boston Navy Yard

APPENDIX A (Cont'd)

BROOKLYN
Brooklyn (NY) Eastern District Terminal

Brooklyn Navy Yard
Brown Hoisting Company
BUNKER HILL
Mr. George F. Cameron
CHAPPEWA
Cleveland Crane Engineering Company
Clyde Line Steam Ship Co.
COAHUILA
Coast Transit Company
COLONEL E.L. DRAKE
Compania Anomina Navegacion Fluvial y Costanera de Venezuela
CONYNGHAM
CUBA
Cuba Mail Steam Ship Company
Cuban Government
CURACAO
CYCLOPS
CYPRESS
Delaware Lackawanna & Wilmington Rail Road Company
East Caicos Company, Ltd.
ESPERANZA
FINLAND
Florida & East Coast Railroad Company
Mr. John W. Gates
GENERAL GEORGE H. WEEKS?
George Hall Coal Company
GREAT NORTHERN
(J.M.) Guffey Petroleum Company
Hamburg American Line
HAVANA
Havana Coal Company
HURON
Huasteca Petroleum Company of New York
IDAHO
Independent Pier and Transportation Company
International navigation Company
Isthmian Canal Commission
J.M. DANZIGER
JALISCO
Japanese Government
KASAGI
KIOWA
KROONLAND
Laguna Corporation
LEBANON
Leigh Coal and Navigation Company
Leigh Valley Railroad Company
Maine Steam Ship Company
APPENDIX A (Cont'd)

Mallory Steam Ship Company
MANZANITA
MASSACHUSETTS
MAYRANT
Merchants and Miners' Transportation Company
MERIDA

MEXICO
MISSISSIPPI
Mississippi Valley and Orient Steam Ship Company
MOHICAN
Mollory Line
MOHAWK
MONTEREY
MOMUS
Morgan Engineering Company
Munson Steam Ship Line
Nantasket
New England Navigation Company
New York and Cuba Mail Steam Ship Co.
New York and Porto Rico Steamship Company
New York Dock Company
New York, New Haven & Hartford Rail Road Company
New York Pennsylvania & Newark? Rail Road Company
NICHOLSON
O'BRIEN
Ocean Steamship Company (of New York)
Oceanic Steam Ship Company
OLD COLONY
Old Dominion Steam Ship Company
ONONDAGA
ONTARIO
Pacific Mail Line
Panama Canal Commission
Panama Rail Road Company
PARKER
PATTERSON
Pennsylvania Rail Road Company
Philadelphia & Gulf Steamship Company
Philadelphia & Reading Transportation Company
Philadelphia City Government
PORTER
Puget Sound Tug Boat Company
Pusey and Jones Company of Wilmington, Delaware
QUAY
Red "D" Line
REPUBLIC
RETVIZAN
Royal Dutch West India Mail - French, Edye & Co. Agents
Russian Government
SACRAMENTO

APPENDIX A (Cont'd)

ST. LOUIS
ST. PAUL
SANOMA
SANTA BARBARA
SANTA CLARA
SANTA CATALINA
SANTA CECILIA
SARATOGA
SIERRA

Mr. A.G. Smith
Society les Affreteurs Reunis
SONOMA
SOUTH CAROLINA
Southern Pacific Company
Southern Pacific Steam Ship Company
Southern Pacific Steam Ship Co. Atlantic Steam Ship Line
Southern Rail Road Co.
Standard Oil Company
Staples Transportation Company
Sun Oil Company (of New York)
TAMAQUA
Mr. Stevenson Taylor of New York
TENNESSEE
Texas Company (of New York)
THOR
Tidewater Oil Company
TULIP
Union Sulphur Company
United Fruit Company
United States Government
VENTURA
W.R. Grace & Company
WARRINGTON
Waters Pierce Oil Company
Wellman-Seaver-Morgan Company
WILKES
Wilmington Steamboat Company
WINSLOW

APPENDIX B

OTHER LOCATIONS OF PRIMARY OR SECONDARY SOURCES

Several institutions contain varying amounts of primary or secondary sources pertinent to the William Cramp and Sons Company. Chief among these is the Philadelphia Maritime Museum which contains blueprints of many of the Hull numbers missing in our numerical sequence, as well as some photographs, and volumes such as minute books, apprentice books, stock ledgers, and orders of business.

Other repositories containing materials are the National Archives in Washington, D.C., the Naval Historical Center also in Washington, D.C., Mystic Seaport Museum in Mystic, Connecticut, the Mariner's Museum in Newport News, Virginia, the Massachusetts Institute of Technology Museum in Cambridge, Massachusetts, the Hagley Museum and Library in Wilmington, Delaware, and Temple University, the Historical Society of Pennsylvania and the Free Library of Philadelphia, all in Philadelphia, Pennsylvania.