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UNIVERSAL CYCLOPÆDIA AND ATLAS

A NEW EDITION UNDER DIRECTION OF
CHARLES KENDALL ADAMS, LL. D.

PRESIDENT OF THE UNIVERSITY OF WISCONSIN
EDITOR-IN-CHIEF

ASSISTED BY A CORPS OF ASSOCIATE EDITORS
COMPOSED OF THE ABLEST AND MOST DISTINGUISHED SCHOLARS
IN THE UNITED STATES AND CANADA, AND OF EMINENT
SPECIALISTS IN BOTH EUROPE AND AMERICA

A NEWLY REVISED AND ENLARGED EDITION

ROSSITER JOHNSON, PH. D., LL. D.

EDITOR OF REVISION

ILLUSTRATED WITH COLORED PLANS, PLATES, AND ENGRAVINGS

COMPLETE IN TWELVE ROYAL OCTAVO VOLUMES

VOLUME I

NEW YORK
D. APPLETON AND COMPANY

PUBLISHERS

1902

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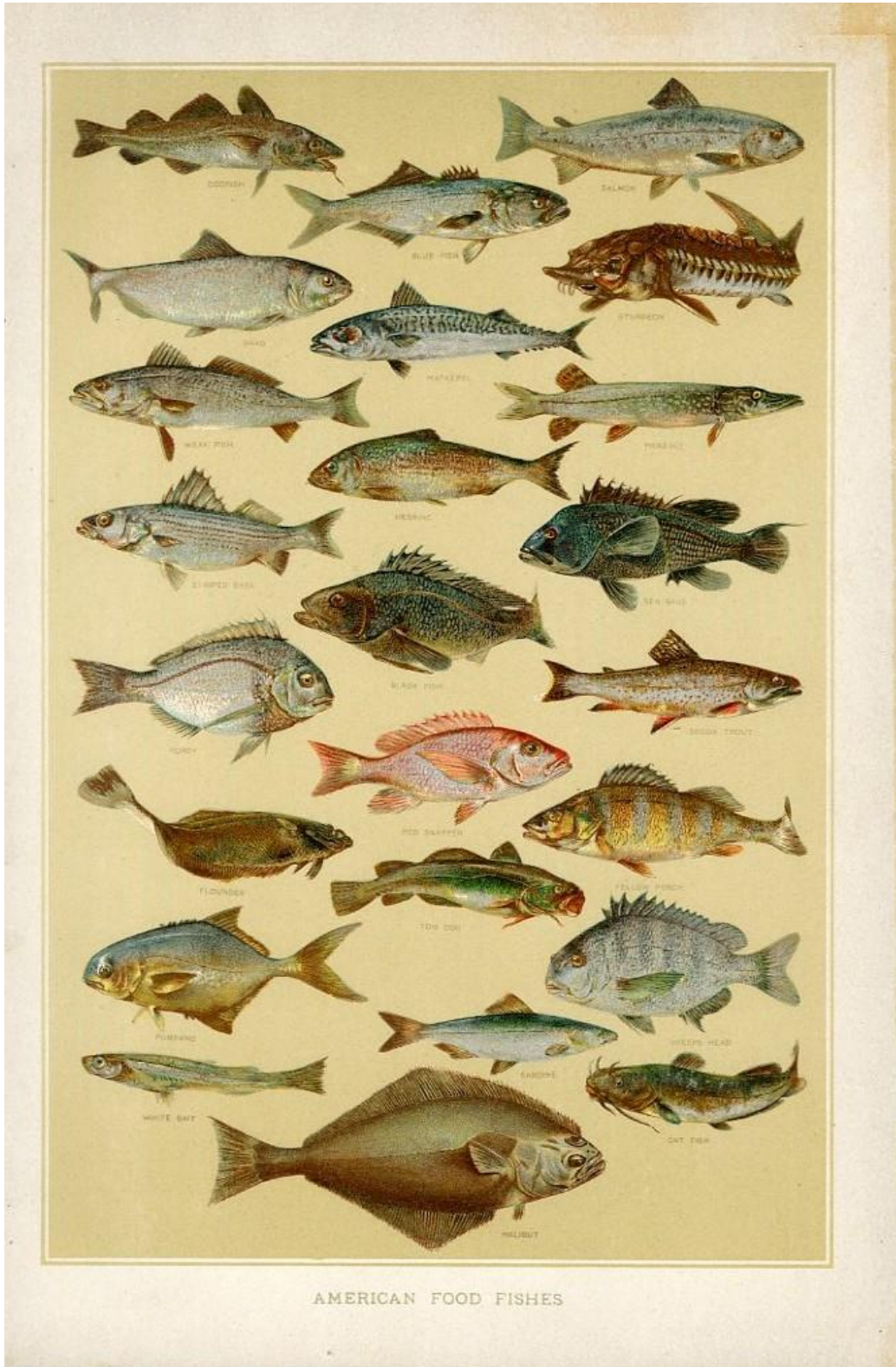
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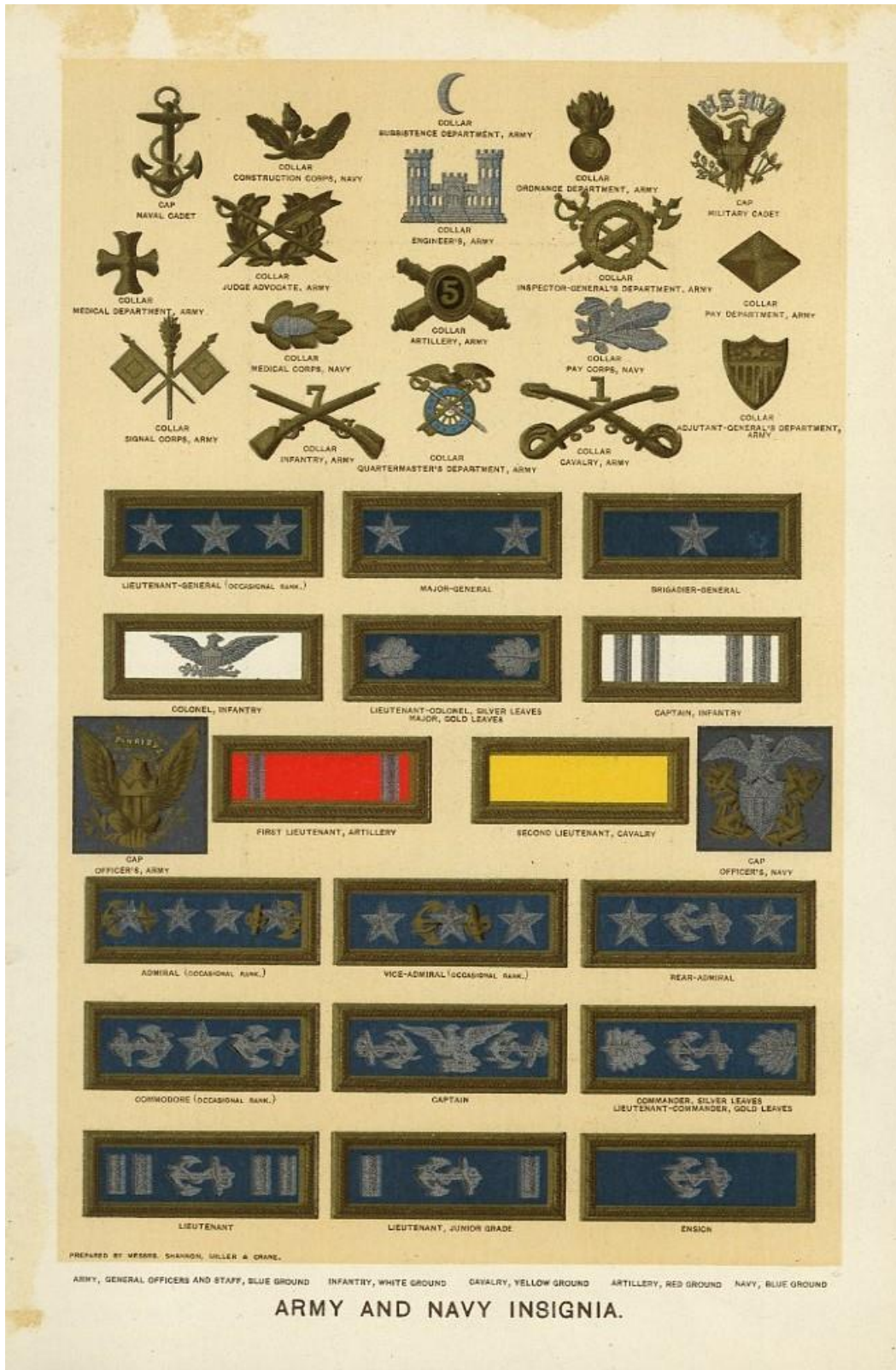
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American Food Fishes



Army, Navy Insignia



Army Badges



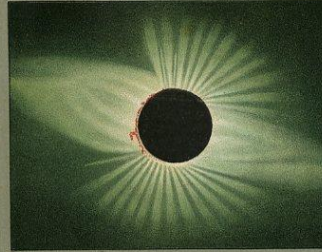
Astronomical Phenomena



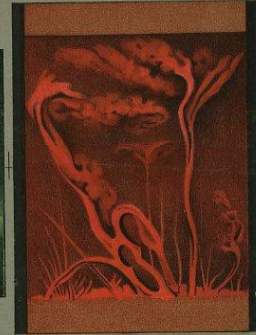
NOVEMBER METEORS.
OBSERVED BETWEEN MIDNIGHT AND 5 A. M.,
NOVEMBER 13-14, 1866.



AURORA BOREALIS.
OBSERVED MARCH 1, 1872, AT 9:25 P. M.



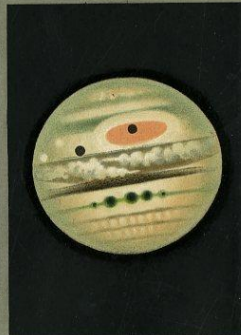
TOTAL ECLIPSE OF THE SUN.
OBSERVED AT CRESTON, WYO., JULY 29, 1878.



SOLAR PROTUBERANCES.
126,000 MILES HIGH. OBSERVED MAY 5, 1873.



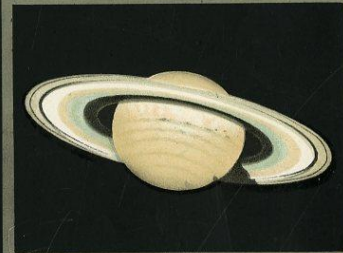
GREAT NEBULA IN ORION.
FROM A STUDY MADE IN THE YEARS 1875-1876.



THE PLANET JUPITER.
OBSERVED NOVEMBER 1, 1880, AT 9:30 P. M.



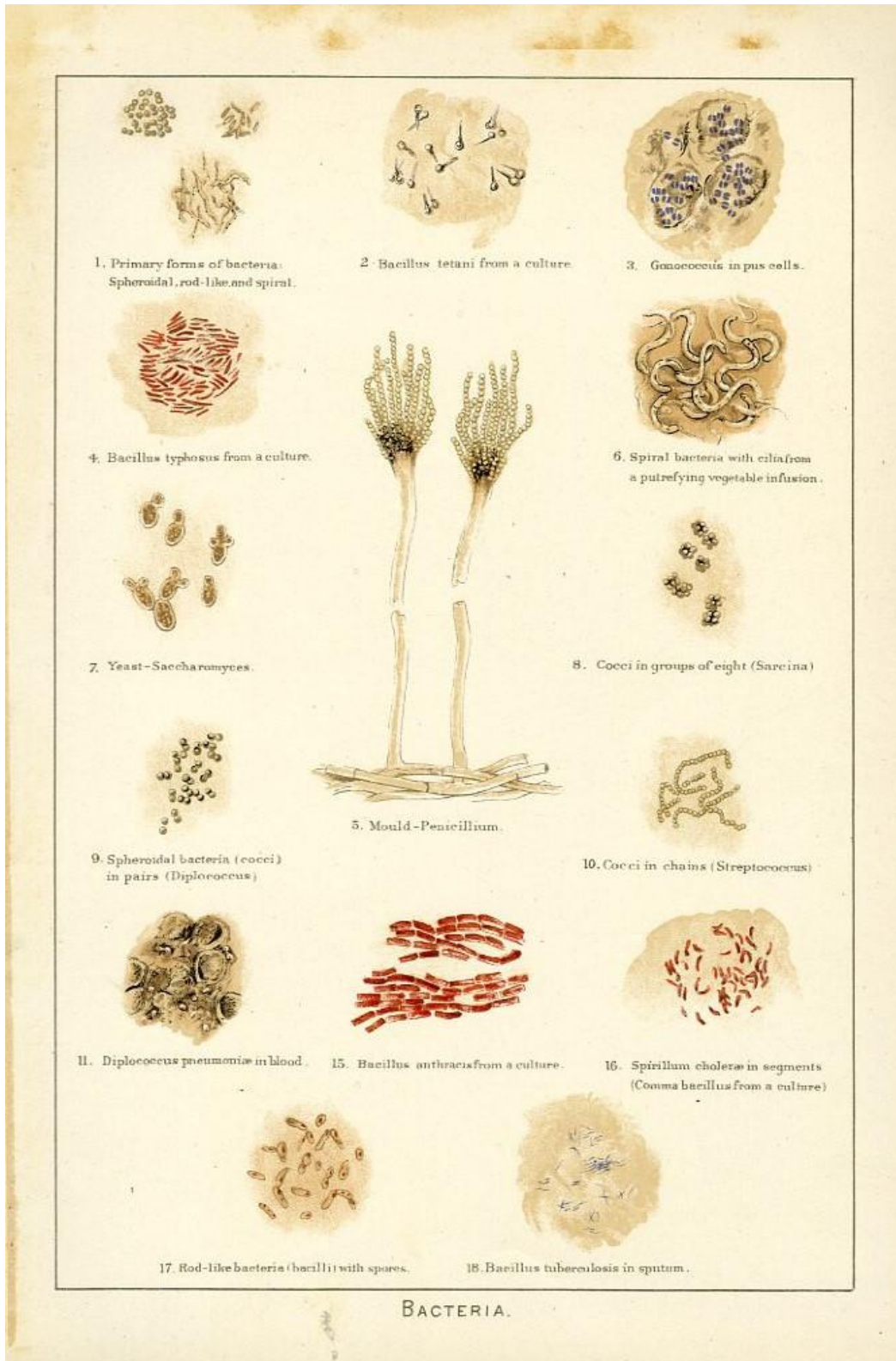
THE PLANET MARS.
OBSERVED SEPTEMBER 3, 1877, AT 11:50 P. M.



THE PLANET SATURN.
OBSERVED NOVEMBER 30, 1874, AT 5:50 P. M.

ASTRONOMICAL PHENOMENA.

Bacteria



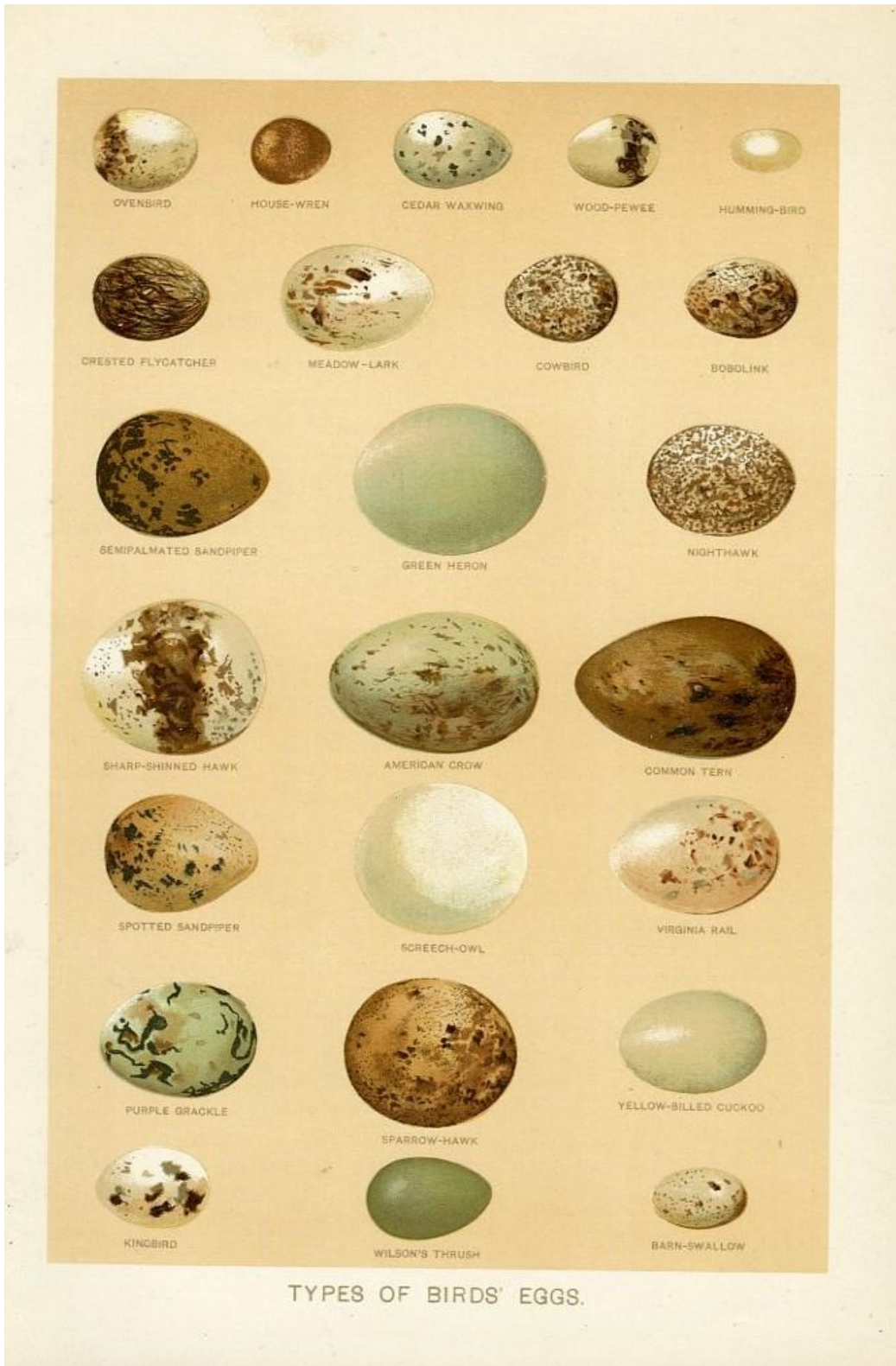
Badges of Patriotic Societies



BADGES AND ROSETTES OF PATRIOTIC SOCIETIES.

1. Sons of the American Revolution.
2. Society of the Cincinnati.
3. Sons of the Revolution.
4. Society of Colonial Wars.
5. The Society of the War of 1812.
6. General Society of the War of 1812.
7. The National Society of the Colonial Dames of America.
8. Artec Club of 1847.
9. Society of the Colonial Dames of America.
10. Daughters of the Revolution.
11. Naval Order of the United States.
12. Daughters of the American Revolution.

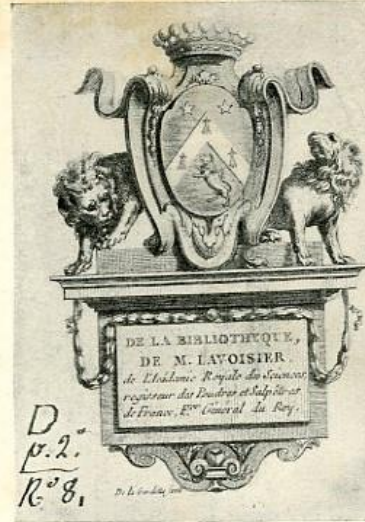
Birds Eggs



Book Plates 1



German—eighteenth century.



French—eighteenth century.



Italian—eighteenth century.



English—seventeenth century.

Book Plates 2



English—early nineteenth century



English—late Chippendale.



American—eighteenth century.



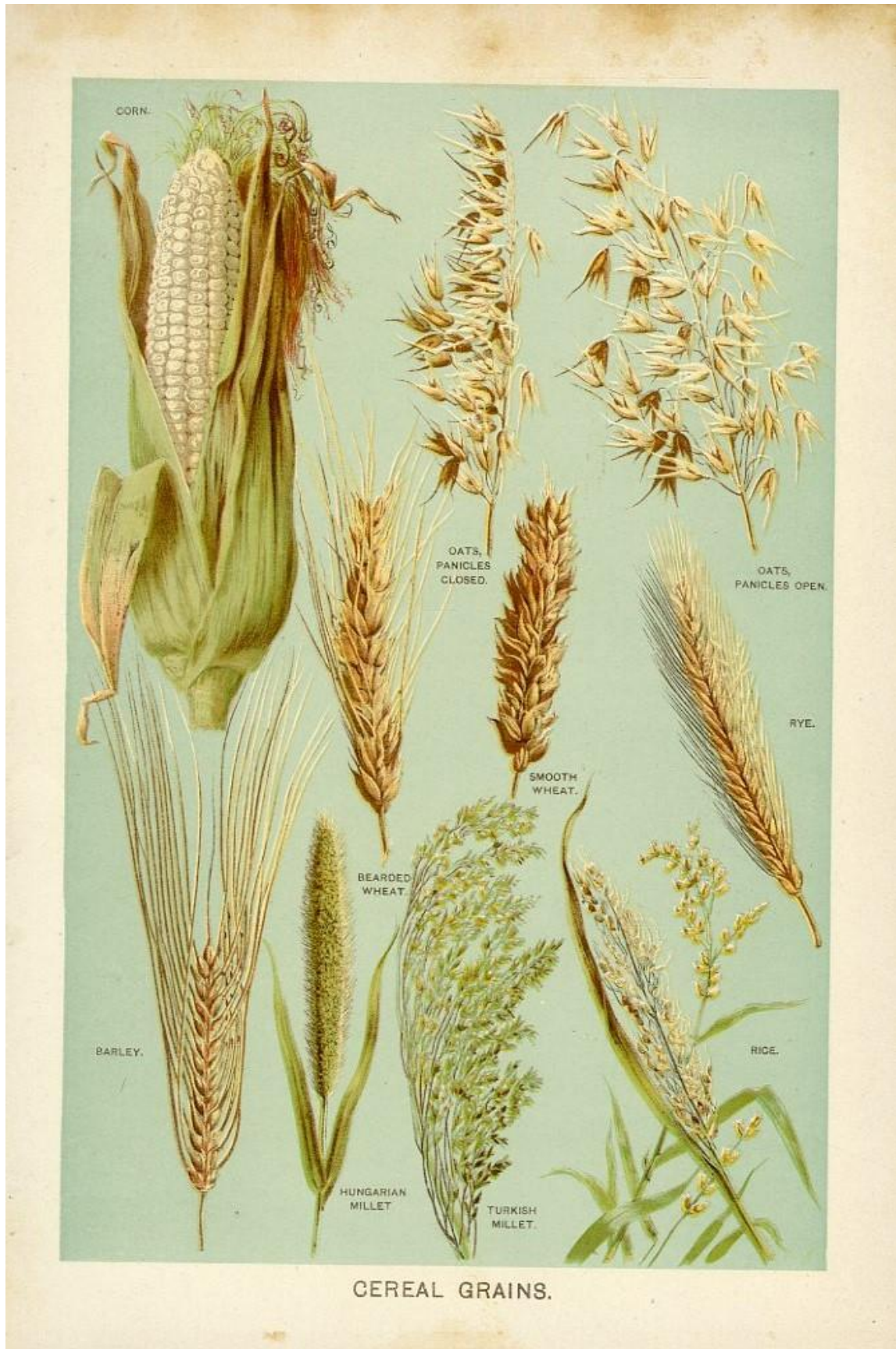
American—eighteenth century.

British Royal Sovereign



British Battle-ship Royal Sovereign.

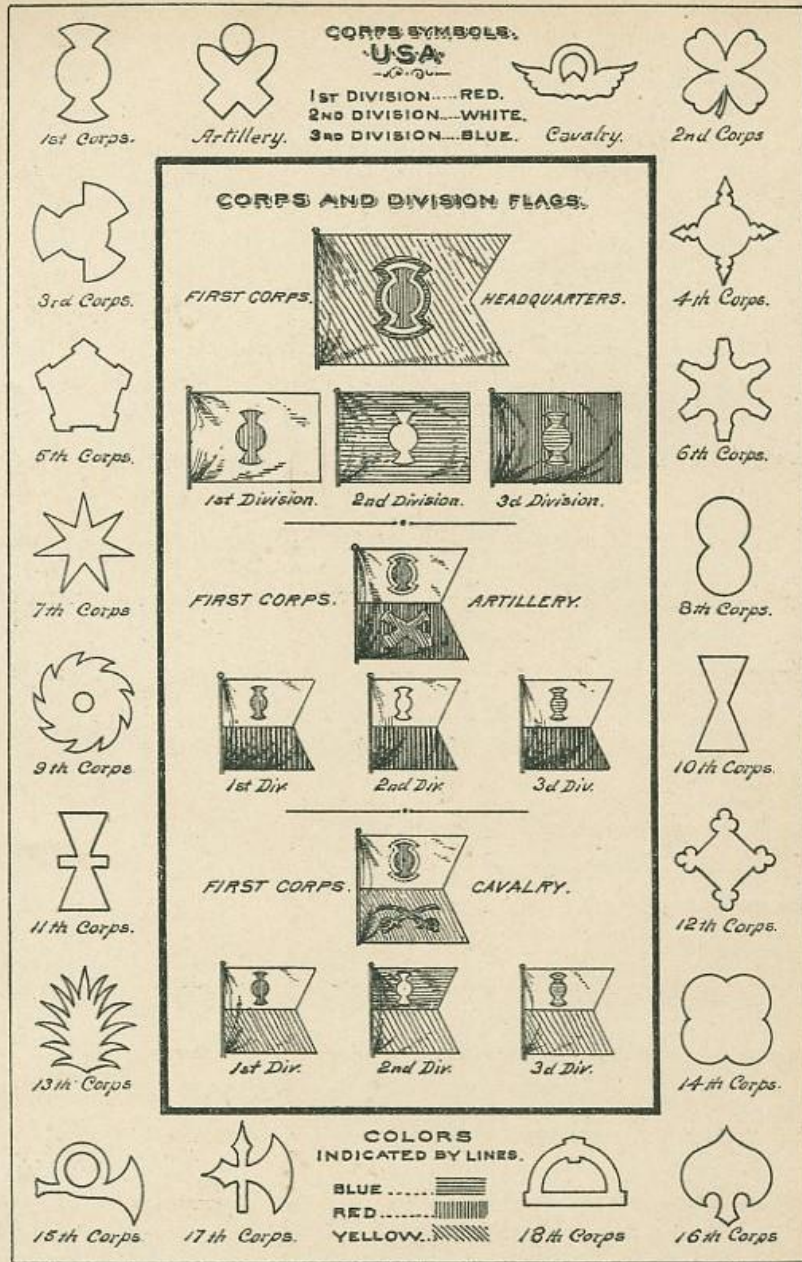
Cereal Grains



Color Lithography




Corps Symbols



Custom Night Signals




ORIGINAL COSTON NIGHT SIGNALS
1840 PATENTED 1859



1 2 3 4
5 6 7 8 9 0 P A






COSTON'S TELEGRAPHIC NIGHT SIGNALS-CHART OF 1859.

1	2	3	4	5	6	7	8	9	0	P	A
---	---	---	---	---	---	---	---	---	---	---	---

COSTON NIGHT SIGNAL.
DISTRESS:  To call TUG ON LAKES:  To call PILOT: 
ESTABLISHED FOR U.S. LAKE AND SEA COASTS. ESTABLISHED FOR CALLING ALL U.S. PILOTS



THE UNITED STATES LIFE-SAVING SERVICE CHART AND CODE.

1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---

COSTON'S TELEGRAPHIC NIGHT SIGNALS, YACHTING CHART.
BROOKLYN CLUB SIGNAL: 
NEW YORK CLUB SIGNAL: 
EASTERN CLUB SIGNAL: 
B C D F G H J K L M N P
Q R S T V W
PREPARATORY SIGNAL (COSTON WHITE STAR ROCKET): 
ANSWERING SIGNAL: 

COSTON'S TELEGRAPHIC NIGHT SIGNALS-INTERNATIONAL CODE CHART.
"PREPARATORY" AND "CODE" SIGNAL

B	C	D	F	G	H	J	K	L	M	N	P
Q	R	S	T	V	W	PILOT	DISTRESS	ANSWERING	YES	NO.	

U.S. REVENUE MARINE SERVICE DISTINGUISHING SIGNAL: 
U.S. LIGHTHOUSE SERVICE DISTINGUISHING SIGNAL: 

Fancy Pigeons

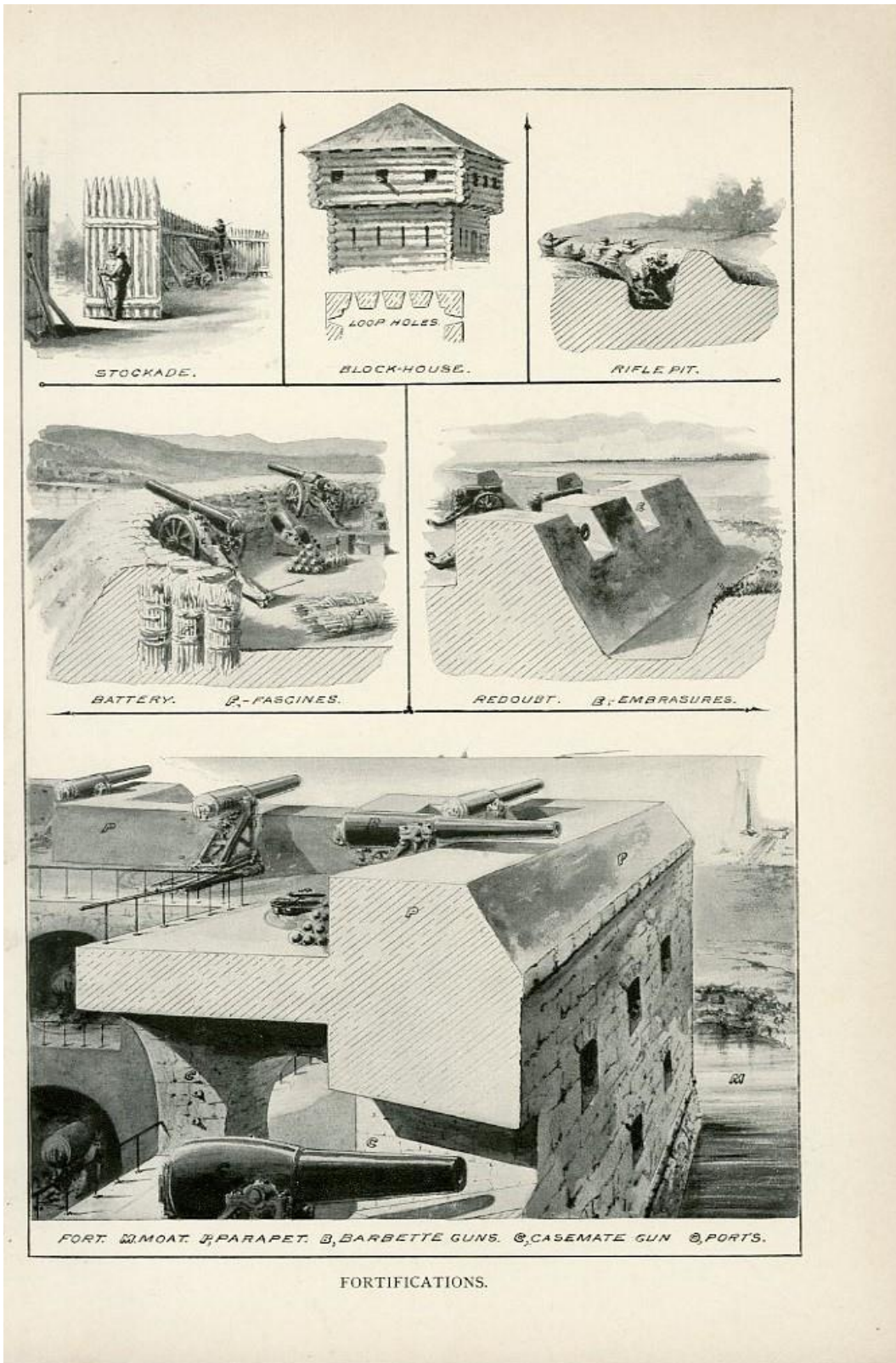


Fancy Poultry



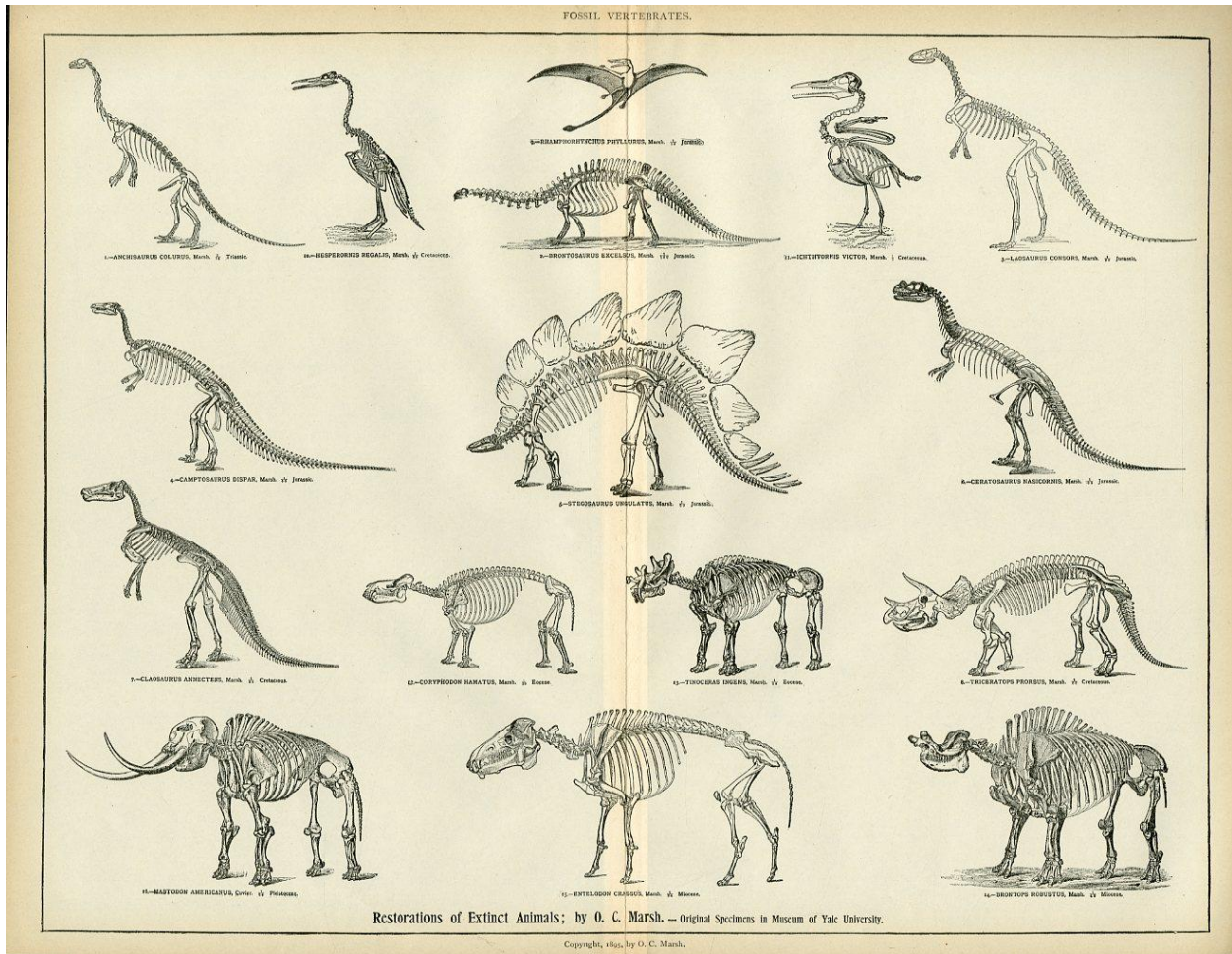
FANCY POULTRY.

Fortifications



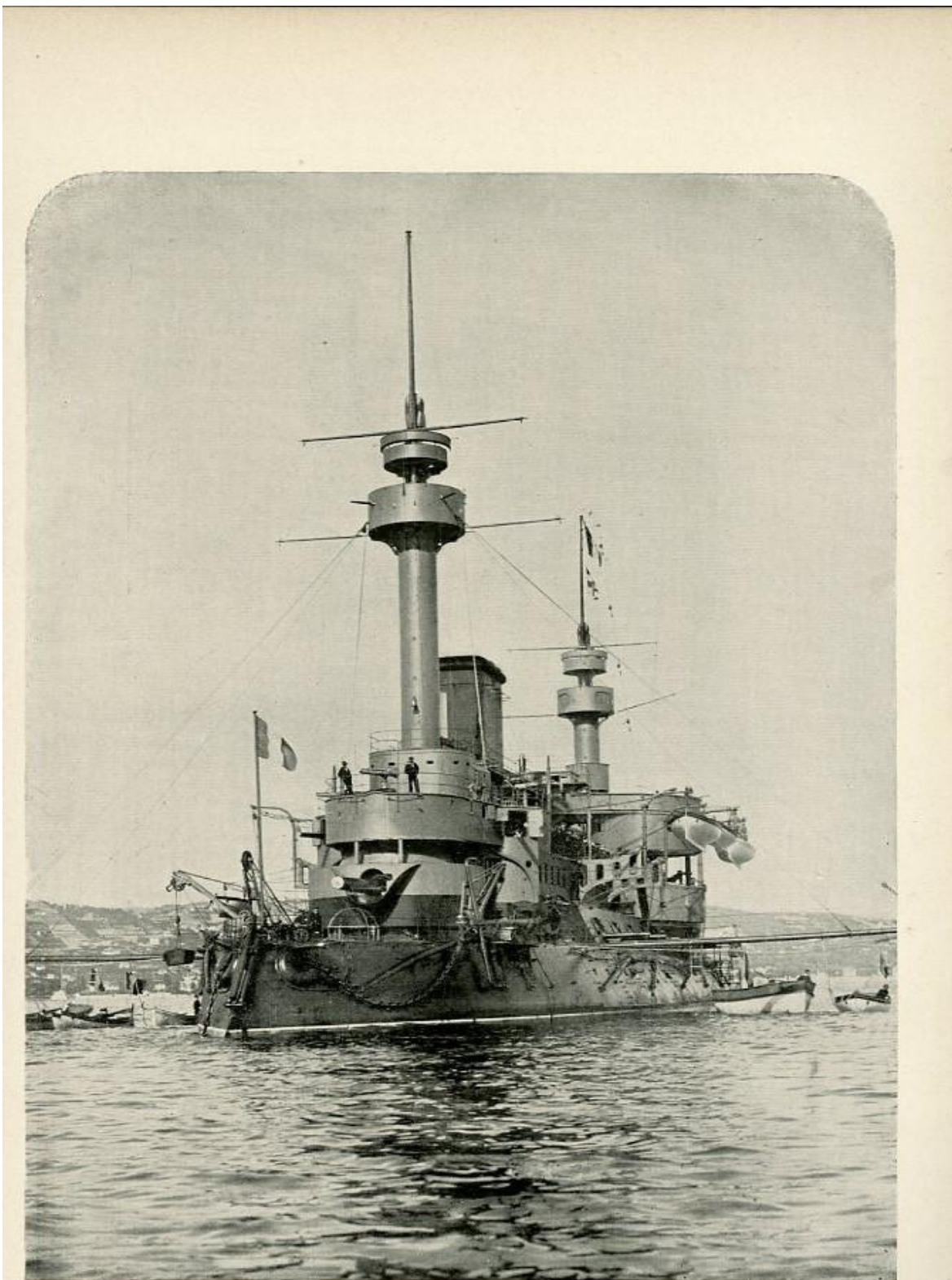
FORTIFICATIONS.

Fossil Vertebrates



Universal Cyclopedia and Atlas 1902 – Other Plates

French Battleship Hoche



French Battle-ship Hoche.

Fungi



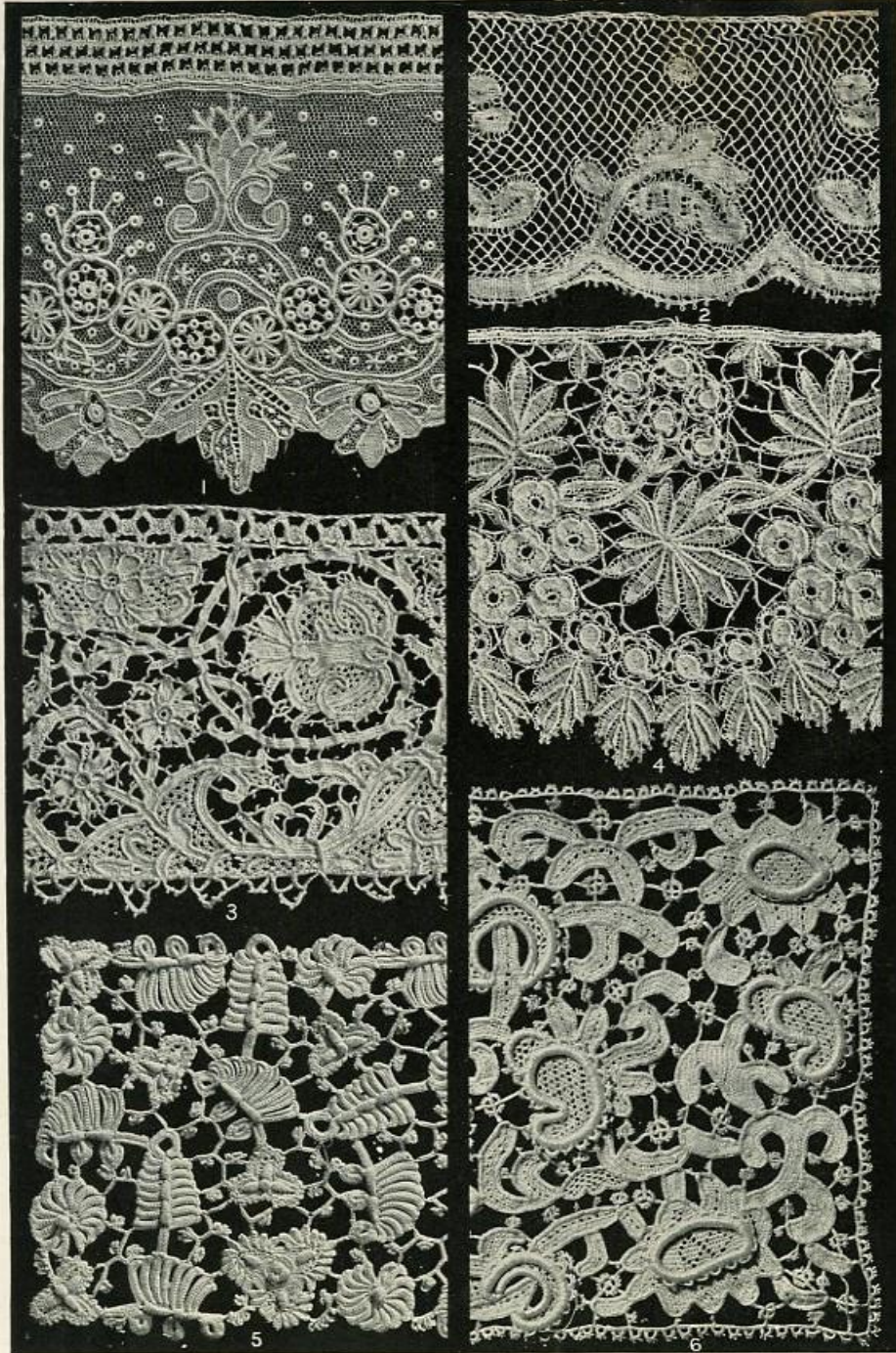
FUNGI.

Hummingbirds



HUMMING BIRDS.

Laces



1. Round Point.
2. Valenciennes.

3. Venetian Point.
4. Duchess.

5. Irish.
6. Raised Venetian Point.

LACES.

Manufactures Administrative Building

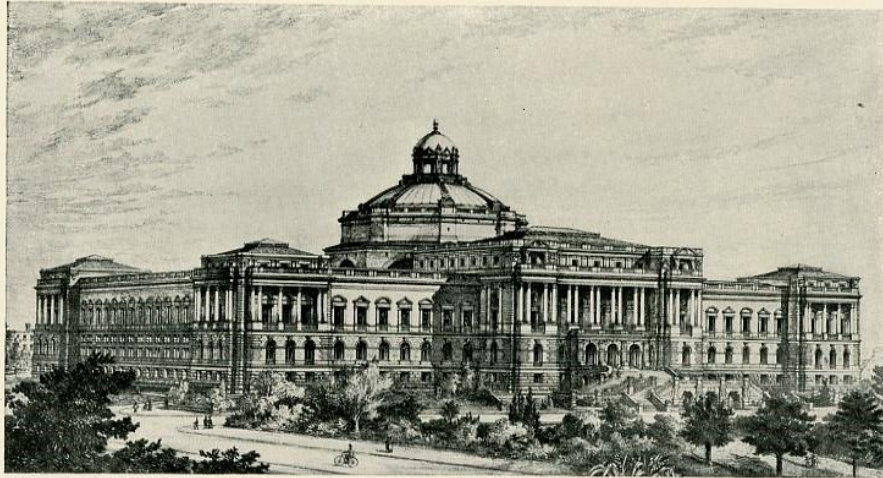


MANUFACTURES BUILDING.



ADMINISTRATION BUILDING.

Nes Congressional Building

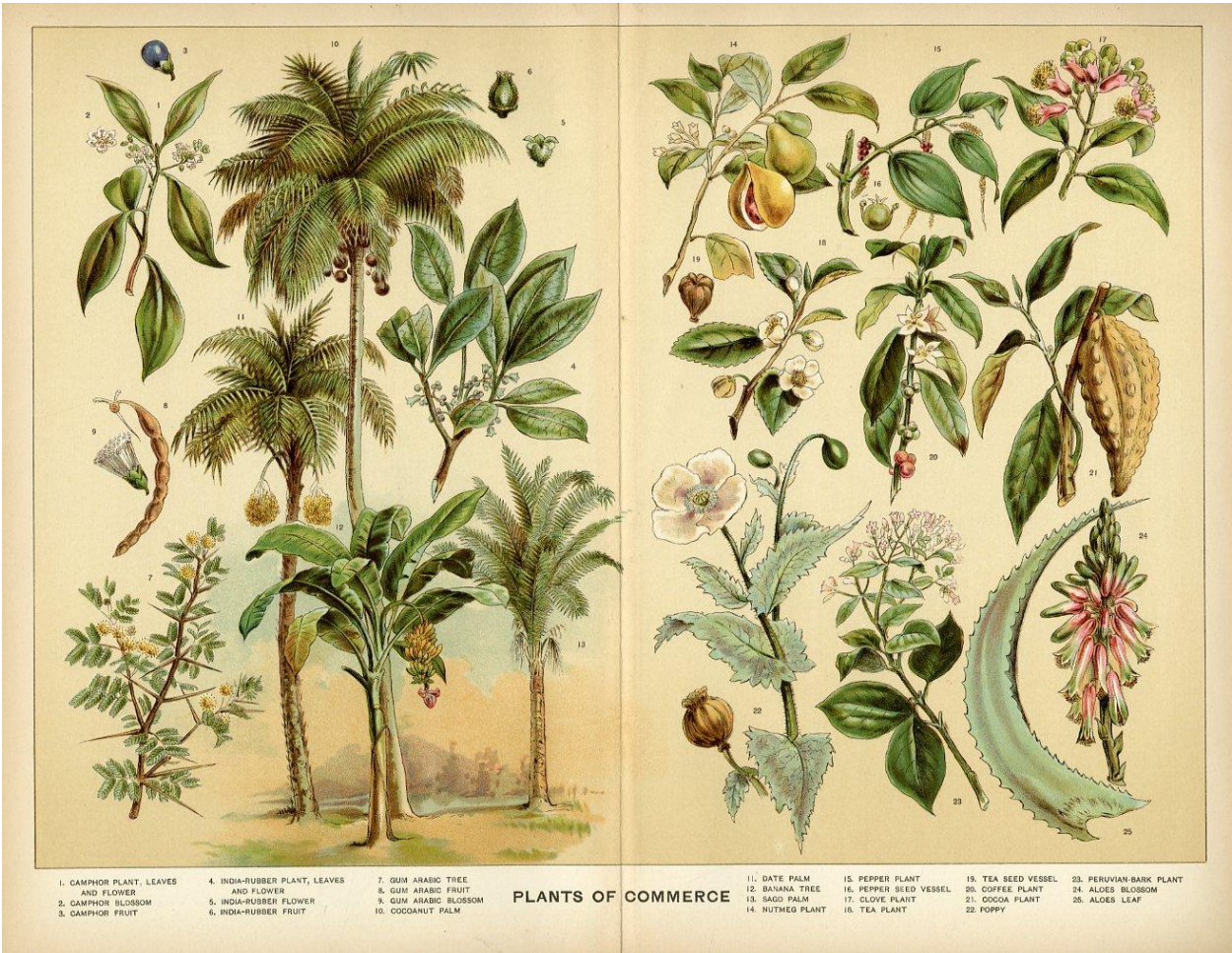


New Congressional Library, Washington, D. C.

Orchids



Plants of Commerce



Postage Stamps 1



Basel.



Vaud.



Geneva.



Zurich.



Portuguese India. Type used for all Portuguese colonies.



Bavaria, 1849. The first German stamp.



Guadalajara, 1867. Issued during Mexican revolution.



New Caledonia, 1858. The worst engraved stamp.



Dominica, 1882. Stamp cut in half and surcharged.



Victoria, 1890. Unpaid letter stamp.



Obock, 1894. Camel post.



Portugal. Type introduced in 1871 and afterward used for all colonies.



Labuan, 1880. Stamp surcharged by pen and ink.



Surcharged stamps.



San Marino, 1894. Issued to celebrate the opening of a new palace.



Pacific Steam Navigation Co. Also used by Peru as an experiment.



Portugal, 1893. Jubilee issue in memory of Prince Henry the Navigator.



Salvador, 1892. Issued to commemorate the Columbus celebration.



Mauritius, 1847. One of the greatest rarities.



Brazil, 1843.



New Brunswick, 1851.



New South Wales, 1850. View of Sydney harbor.

REPRESENTATIVE TYPES OF POSTAGE-STAMPS.

Postage Stamps 2



Philadelphia local delivery stamp, Blood & Co., 1841.

James M. Bushken on
5 Cents.

Baltimore, Md., 1846.



Brattleboro, Vt., 1846.



New Haven, Conn., 1845.



New York city carrier stamp, 1843.



Providence, R. I., 1846.



St. Louis, Mo., 1846.



Millbury, Mass., 1847.



Livingston, Ala. Confederate postmaster's stamp.



Victoria, Tex. Current type for all French colonial stamps.



Anjouan (Johanna), 1863. Current type for all French colonial stamps.



Trinidad, 1862. Type used also in Barbados and Mauritius.



Barbados, 1862.



Afghanistan. Printed from ivory.



British Guiana, 1850. The plainest stamp.



Bolívar, Colombia, 1863. The smallest stamp.



GUIANA. British Guiana, 1856. The rarest stamp; only one known.



Korea, 1884. Used only one day.



Canada, 1851.



Cape of Good Hope, 1853. The first triangular stamp.



Congo, 1894. The handsomest stamp.



North Borneo, 1894. One of the handsomest stamps.



Spain, 1855. Type used for all Spanish colonies.



Great Britain, 1840. Mulready envelope, greatly reduced. The first stamp issued.



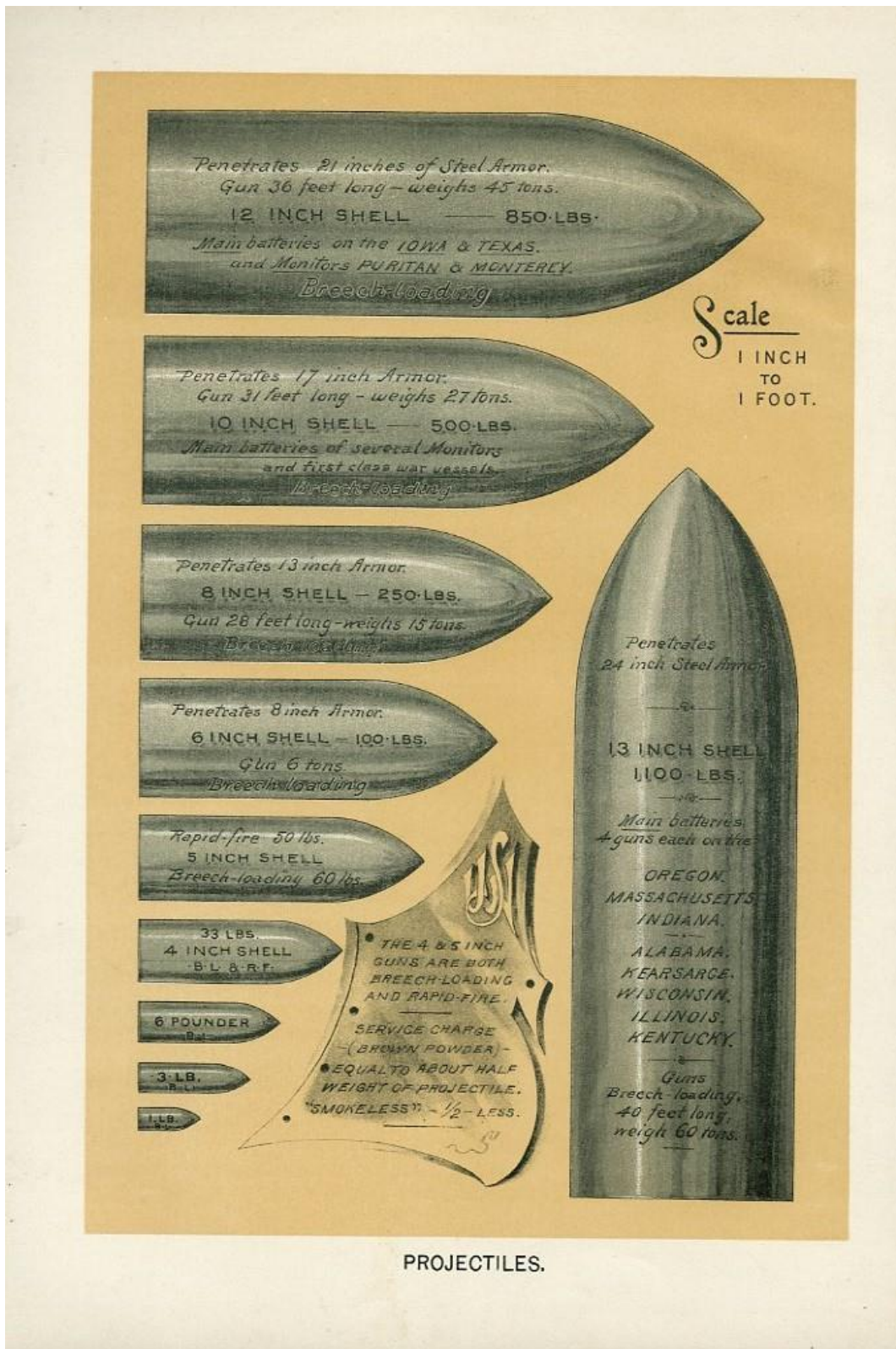
Hankow, 1863. One of the Chinese treaty-port issues.



Hawaii, 1857. One of the rarest stamps.

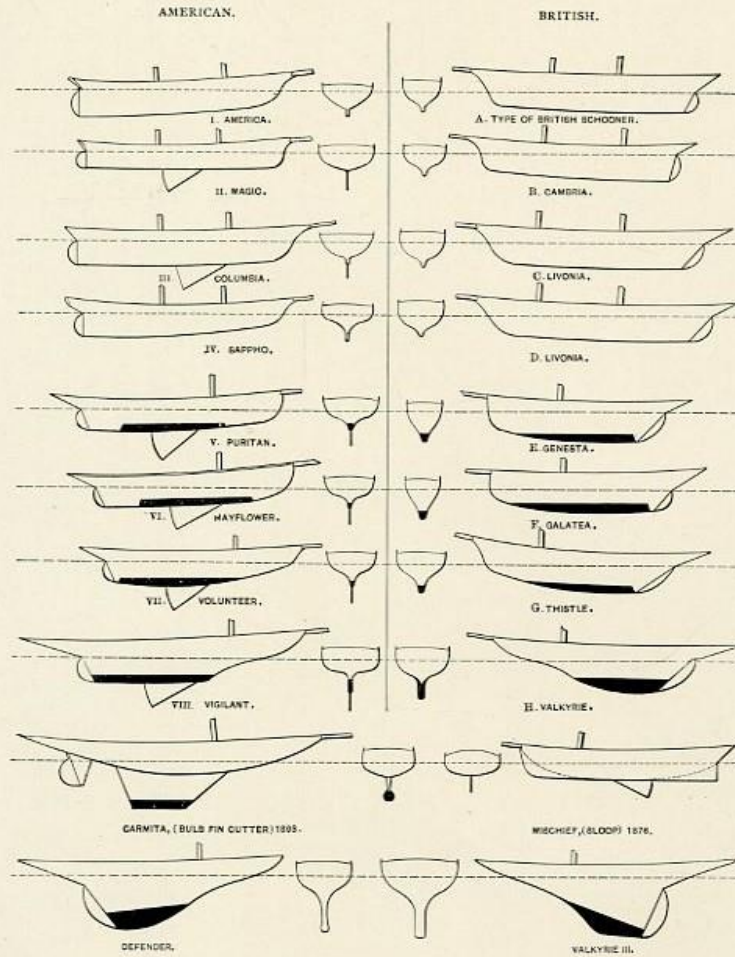
REPRESENTATIVE TYPES OF POSTAGE-STAMPS.

Projectiles



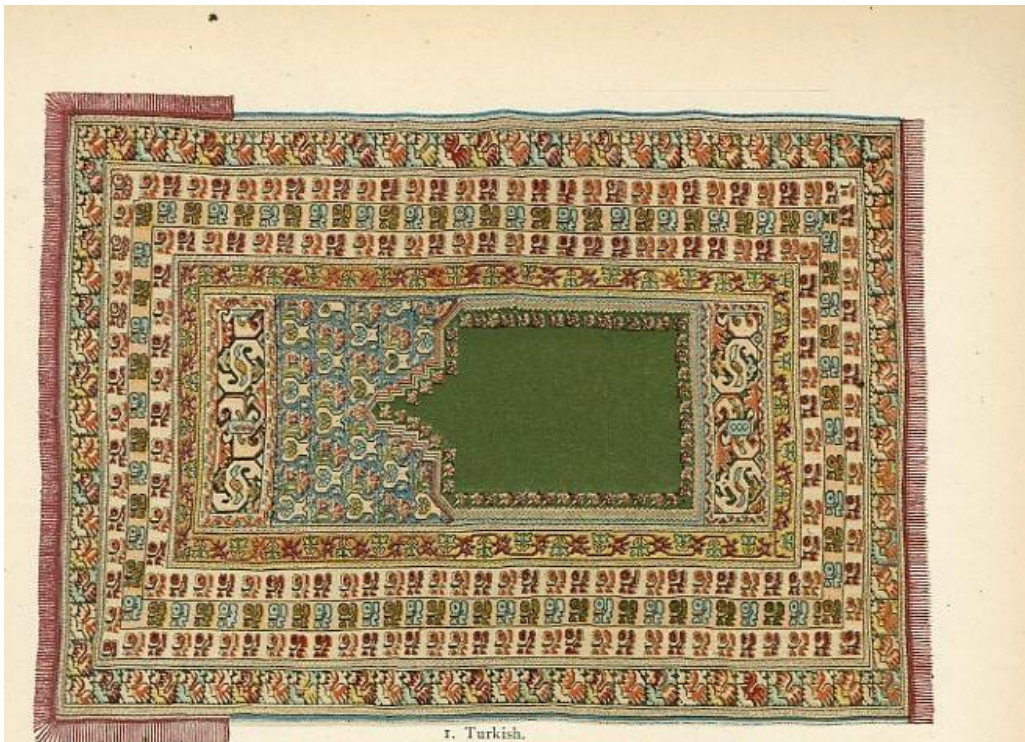
PROJECTILES.

Racing Yachts



Typical British and American racing-yachts, 1851-1895.

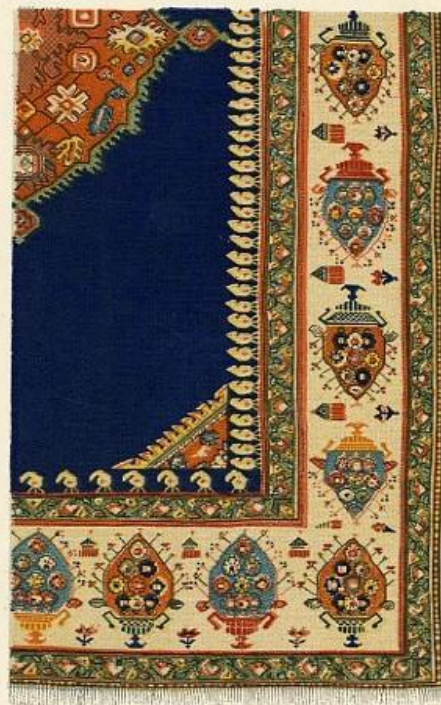
Rugs



1. Turkish.



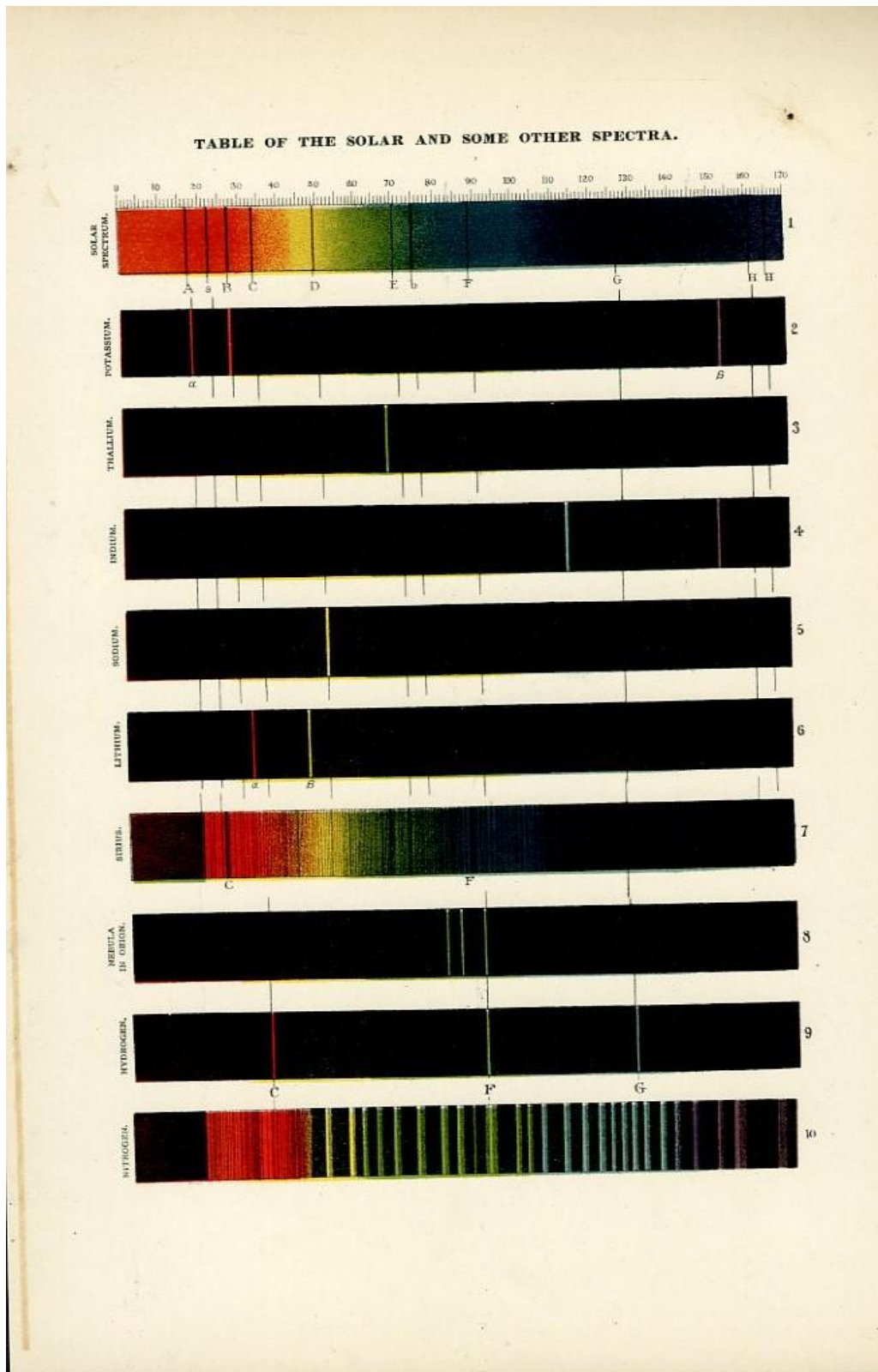
2. Persian.



3. Indian.

RUGS.

Solar and Other Spectra



Song Birds

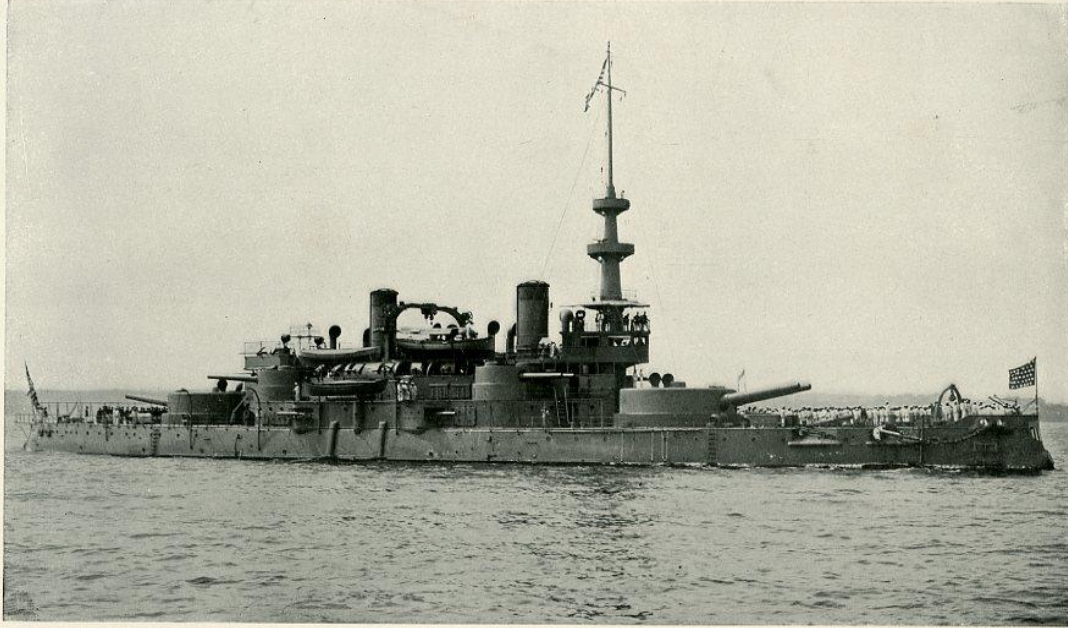


The Capitol



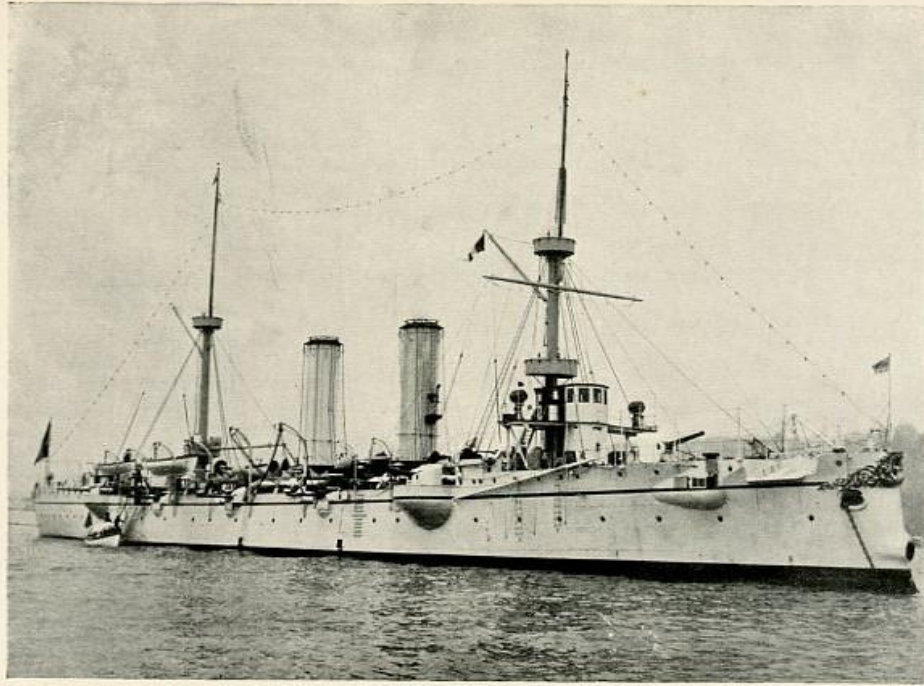
The Capitol, Washington, D. C.

U. S. Battleship Oregon

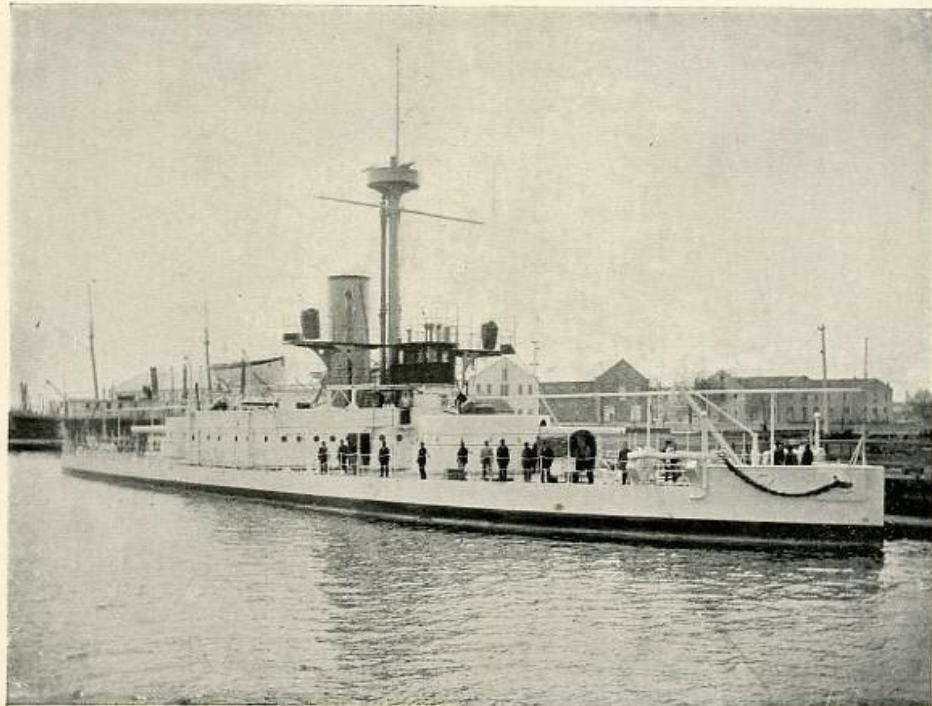


THE UNITED STATES BATTLE-SHIP "OREGON."

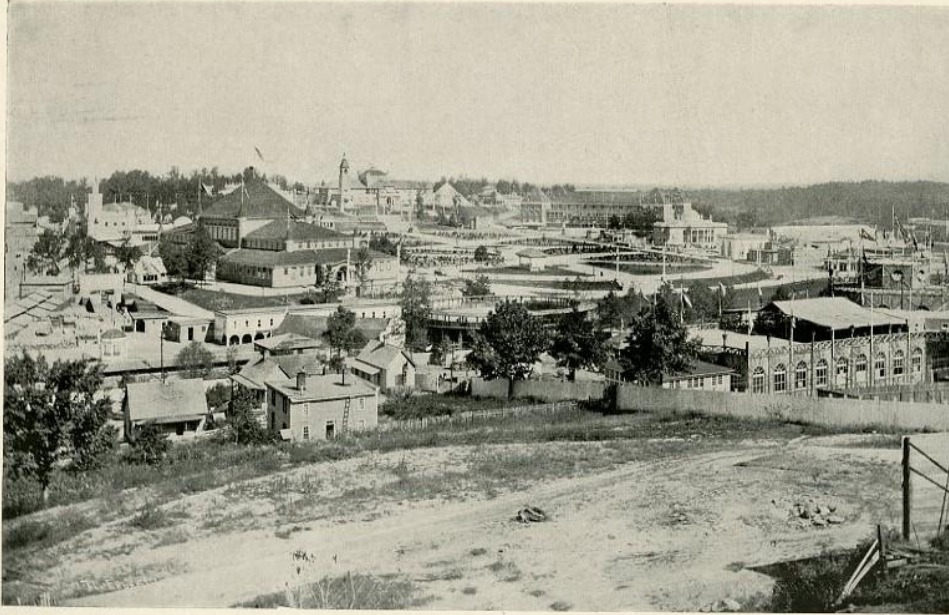
U. S. Battleship Amphitrite



Argentine Cruiser Nueve de Julio (3,575 tons; 22 knots).



View of Exposition



GENERAL VIEW OF THE EXPOSITION.