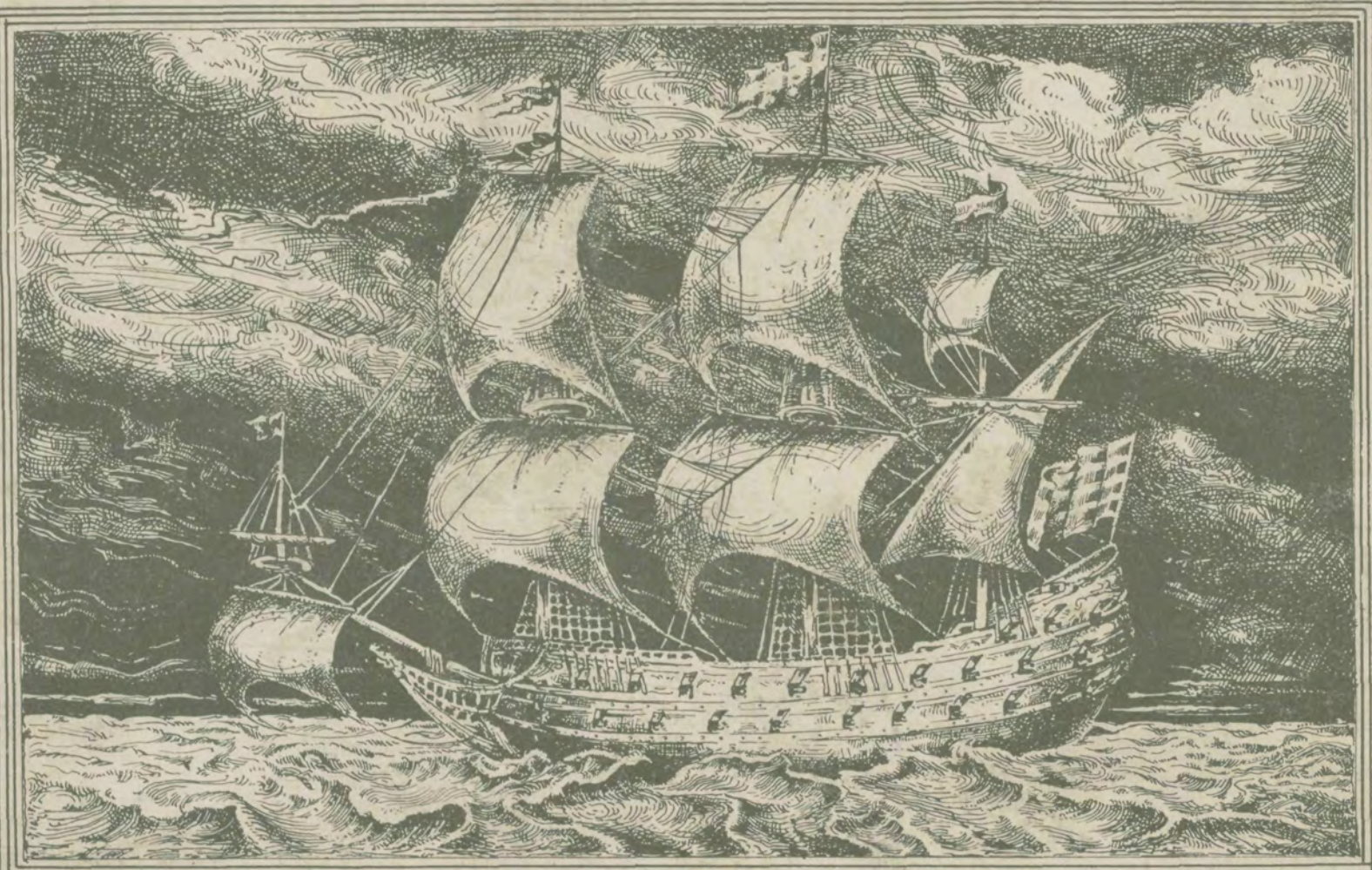


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SHIPBUILDING FROM ITS
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SHIPBUILDING
FROM
ITS BEGINNINGS



SHIPBUILDING FROM ITS BEGINNINGS

BY

E. VAN KONIJNENBURG, C. E.,

ENGINEER OF THE RIJKSWATERSTAAT OF THE NETHERLANDS

1895 - 1905

PUBLISHED

BY

THE PERMANENT INTERNATIONAL ASSOCIATION

OF

CONGRESSES OF NAVIGATION

EXECUTIVE COMMITTEE — OFFICE OF THE SECRETARY GENERAL

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MIDDELLANDSCHE ZEE

(Zuidelijk Centrum).

MITTELLÄNDISCHES MEER

(Südlicher Mittelpunkt).

MEDITERRANEAN SEA

(Southern Centre).

MER MÉDITERRANÉE

(Centre Méridional).

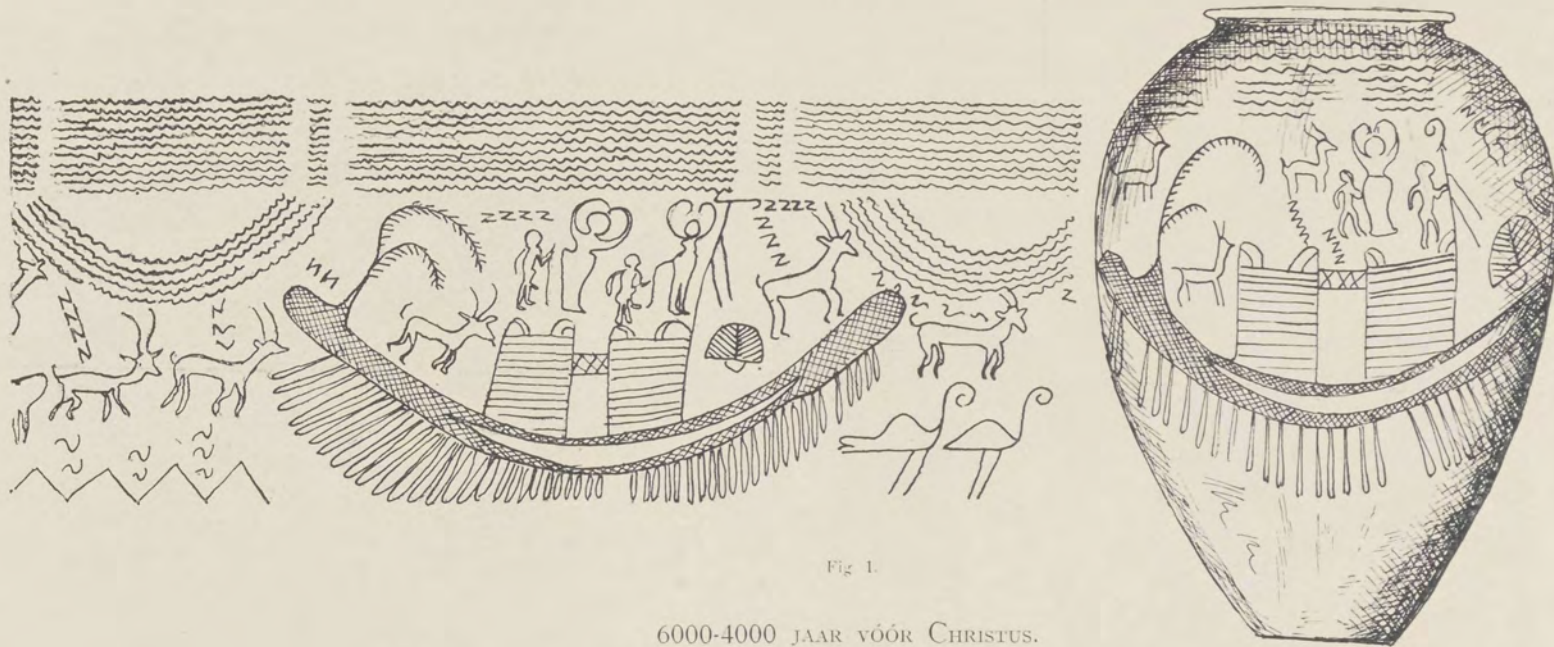


Fig. 1.

6000-4000 JAAR VÓÓR CHRISTUS. 6000-4000 JAHRE VOR CHR. GEB. (MORGAN) 6000-4000 YEARS B. C. 6000-4000 ANS AVANT J.-CHR.



Fig. 2.

Pagaaien. (Torr) Men using paddles. Pageien. (Torr) Pagayeurs.

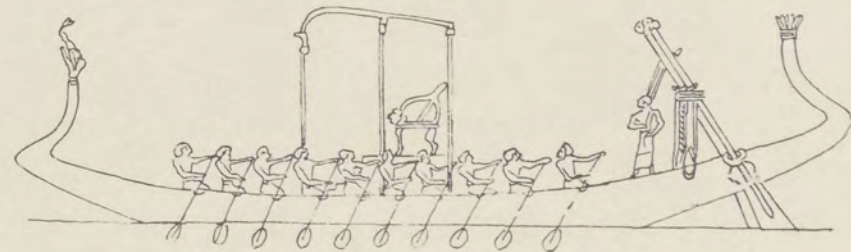


Fig. 3.

Roeien. (Torr) Rowers. Ruderer. (Torr) Rameurs.

EGYPTISCHE SCHEPEN. ÄGYPTISCHE SCHIFFE. EGYPTIAN BOATS. BATEAUX ÉGYPTIENS.

HET GEREED MAKEN VAN PAPYRUS-BOOTJES BIJ DE OUDE EGYPTENAREN.
(Rijksmuseum van oudheden te Leiden.)

DIE HERSTELLUNG VON PAPYRUSBOOTEN BEI DEN ALTEN ÄGYPTERN.
(Altertumsmuseum des Staates in Leyden.)



Fig. 4.

CONSTRUCTION OF PAPYRUS BOATS AMONG THE ANCIENT EGYPTIANS.
(Museum of antiquities of the State of Leyden.)

LA CONFECTION DES BARQUETTES EN PAPYRUS CHEZ LES ANCIENS ÉGYPTIENS.
(Musée d'antiquités de l'Etat à Leyde.)

PAPYRUSBOOT, DAS
NOCH JETZT AUF DEM
TSCHADSEE IN
GEBRAUCH IST.
(Schilfpirogue der
Eingeborenen.)



PAPYRUS BOAT STILL
IN USE ON LAKE
TCHAD.
(Reed canoe of the natives.)

Fig. 5.

PAPYRUS BOOTJE ZOOALS DIT THANS NOG IN GEBRUIK IS OP HET TCHADMEER.
BARQUETTE EN PAPYRUS ACTUELLEMENT EN USAGE SUR LE LAC TCHAD.
(Pirogue de roseaux des indigènes.)

1. ROEISCHIP; 2. en 3. VRACHTSCHEPEN DER OUDE EGYPTENAREN.
 1. RUDERSCHIFF; 2. und 3. HANDELSCHIFFE DER ALTEN ÄGYPTER.



Fig. 6.

1. ROWBOAT; 2. and 3. MERCHANT BOATS OF THE ANCIENT EGYPTIANS.
 1. BATEAU A RAMES; 2. et 3. BATEAUX MARCHANDS DES ANCIENS EGYPTIENS.



Fig. 7.

GESLEEPT WORDEND VRACHTSCHIP DER OUDE EGYPTENAREN.
 (Grafmonument, Rijksmuseum van oudheden te Leiden.)

GESCHLEPPTES HANDELSCHIFF DER ALTEN ÄGYPTER.
 (Grabdenkmal im staatlichen Altertummuseum in Leyden.)

TOWED MERCHANT VESSEL OF THE ANCIENT EGYPTIANS.
 (Funeral monument, Museum of antiquities of the state of Leyden.)

BATEAU MARCHAND REMORQUÉ DES ANCIENS EGYPTIENS.
 (Monument funéraire, Musée d'antiquités de l'Etat à Leyde.)

MODEL OUD EGYPT.-SCHIP. (MIDDELRIJK ± 2200-1800 VÓÓR CHRISTUS).
(Museum van oudheden, te Leiden.)

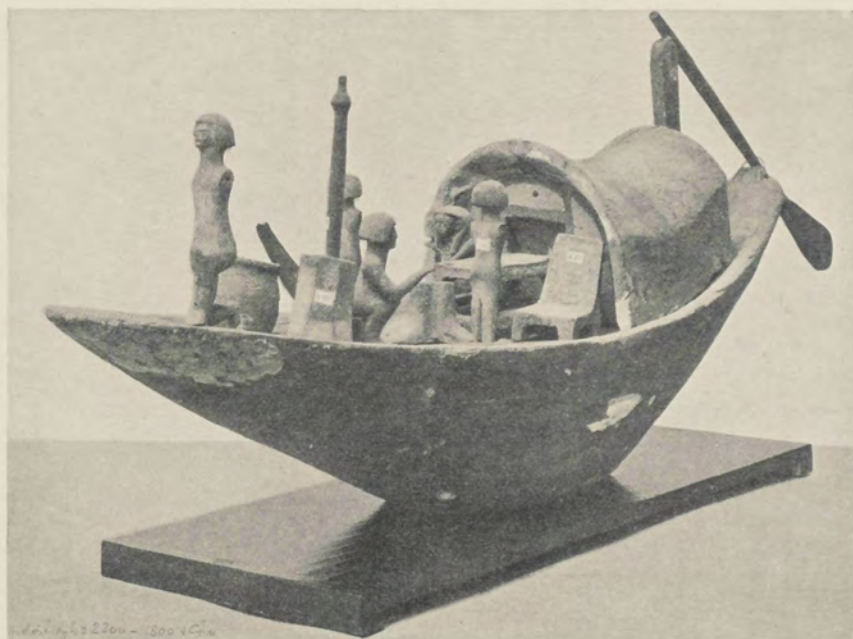


Fig. 8.



Fig. 8

MODELL EINES SCHIFFES AUS ALT-ÄGYPTEN (MITTLERES REICH ± 2200-1800 VOR CHR. GEB.).
(Altertumsmuseum, in Leyden.)

MODEL OF AN ANCIENT EGYPTIAN VESSEL
(MIDDLE EMPIRE, ABOUT 2200-1800 B. C.).
(Museum of antiquities of Leyden.)

MODÈLE D'UN BATEAU DE L'ANCIENNE EGYPTÉ. (MOYEN EMPIRE ± 2200-1800 AVANT JÉSUS-CHRIST).
(Musée d'antiquités de Leyde.)

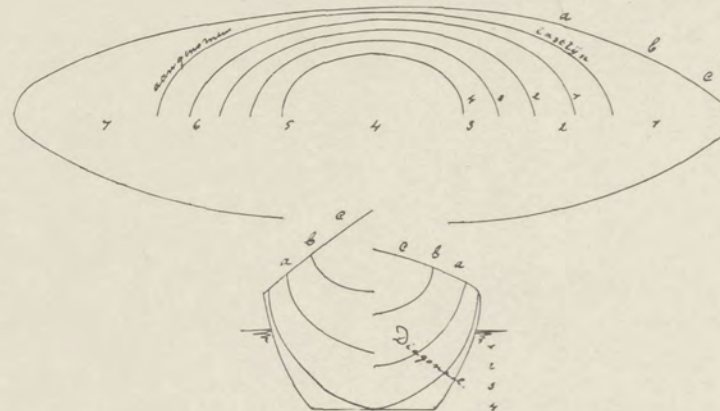


Fig. 9.

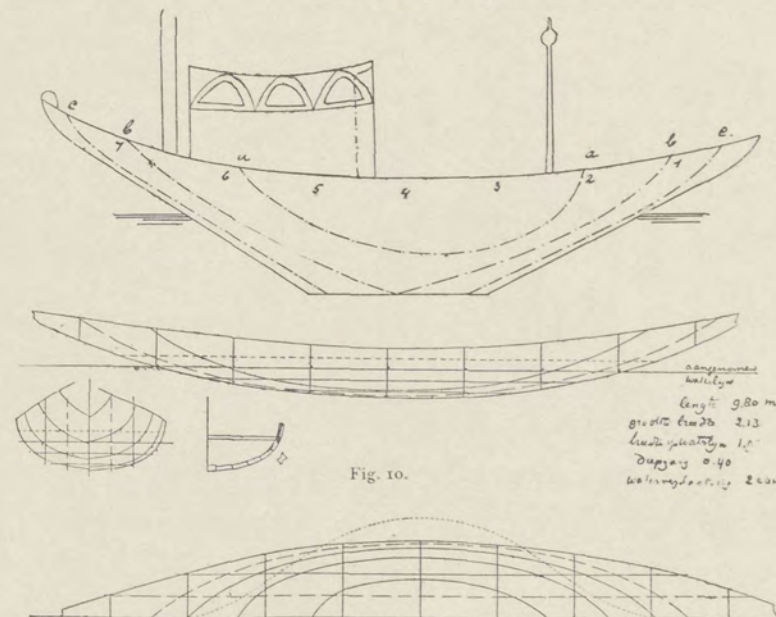


Fig. 10.

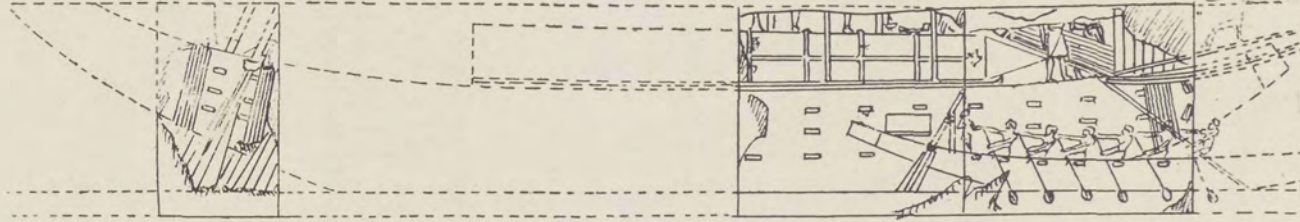
конструкция
длина 9,80 м
ширина в миделе 2,13
ширина в носу 1,0
глубина 0,40
ватерлиния 2,000

VERVOER VAN EEN OBELISK. (1600 v. Chr.).
TRANSPORTATION OF AN OBELISK. (1600 B. C.).

(HOLMES)

BEFÖRDERUNG EINES OBELISKEN. (1600 v. Chr Geb.).
TRANSPORT D'UN OBELISQUE. (1600 av. J.-Chr.).

Fig. 11.



HET OPZETTEN DER GAFFELS OM HET KOORD, DAT HET DOORZADELEN
VAN HET SCHIP MOET VOORKOMEN, VAST TE ZETTEN.

DAS AUFSTELLEN DER GAFFELN (GEBELN)
ZUR BEFESTIGUNG DES TEUES, DAS DIE
LÄNGSBIEGUNG DES SCHIFFS VERHINDERN
SOLL.



POSITION OF THE FORKS INTENDED TO
FIX THE CABLE WHICH PREVENTS THE BOAT
FROM SAGGING LONGITUDINALLY.

Fig. 12.

LE PLACEMENT DES FOURCHES DESTINÉES A FIXER LE CABLE QUI DOIT
EMPÊCHER LA FLEXION LONGITUDINALE DU BATEAU.

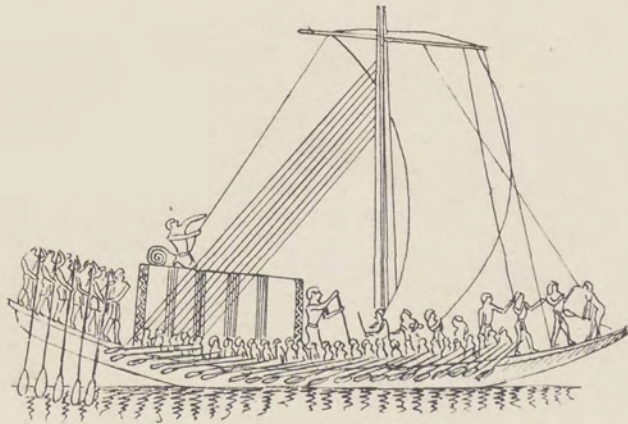


Fig. 13.

ÄGYPTISCHE HANDELSCHIFFE.
(Altes Reich.)

EGYPTISCHE HANDELSCHEPEN.
(Oude rijk.)

EGYPTIAN MERCHANT VESSELS.
(Ancient Empire.)

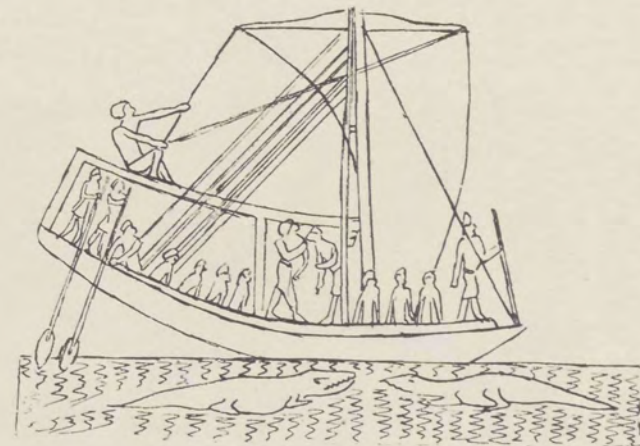
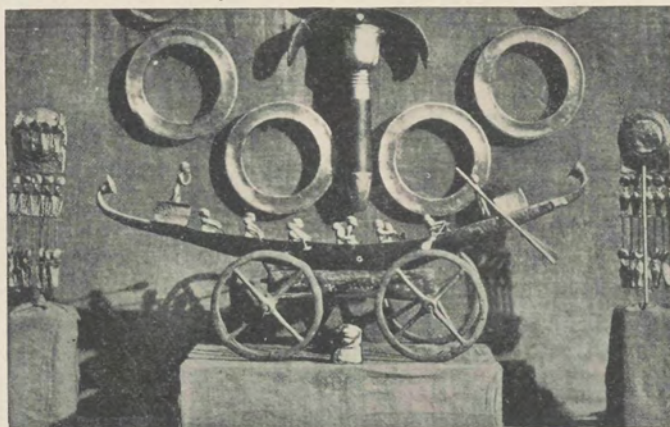


Fig. 14

NAVIRES MARCHANDS ÉGYPTIENS.
(Ancien Empire.)

OUDE EGYPTIE :

- I. KLEINOD VOORSTELLEND EEN ROEISCHIP.
(Rijksmuseum van oudheden te Cayro.)
- 2, 3 EN 4. ROEISCHIP DER OUDE EGYPTENAREN
UIT HET MIDDELRIJK ± 2200-1000 VÓÓR
CHRISTUS.
(Rijksmuseum van oudheden te Leiden.)



1

Fig. 15.

ALTES ÄGYPTEN :

- I. KLEINOD MIT DARSTELLUNG EINES RUDERSCHIFFES.
(Rijksmuseum van oudheden te Cayro.)
- 2, 3 UND 4. RUDERSCHIFF DER ALTEN ÄGYPTER ;
MITTLERES REICH ± 2200-1000 VOR CHR-
GEB.
(Altertumsmuseum des Staates in Kairo.)

ANCIENT EGYPT :

- I. JEWEL REPRESENTING A VESSEL WITH OARS.
(Rijksmuseum van oudheden te Cayro.)
- 2, 3 AND 4. VESSEL WITH OARS OF THE
ANCIENT EGYPTIANS, MIDDLE EMPIRE
± 2200-1000 B. C.
(Museum of antiquities of the State of Cairo.)



2

Fig. 16.

ANCIENNE EGYPTIE :

- I. BIJOU REPRÉSENTANT UN BATEAU A RAMES.
(Rijksmuseum van oudheden te Cayro.)
- 2, 3 ET 4. BATEAU A RAMES DES ANCIENS
EGYPTIENS, MOYEN EMPIRE ± 2200-1000
AVANT J.-C.
(Musée d'antiquités de l'Etat, Le Cairo.)



3

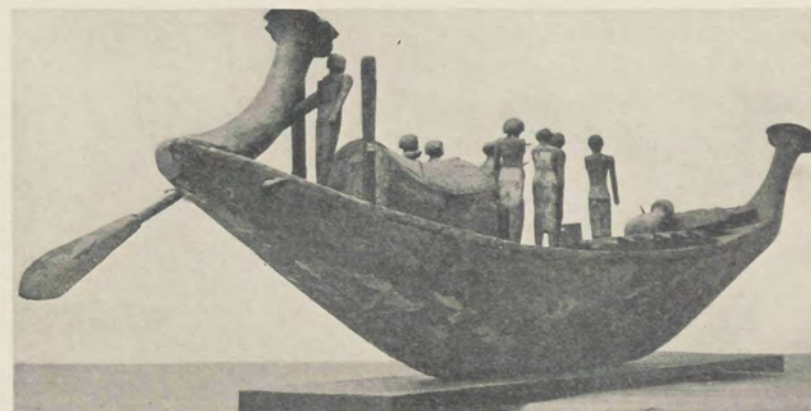


Fig. 16.

4

SCHEPEN NAAR HET LAND PUNT.
(Nieuwe Rijk.)

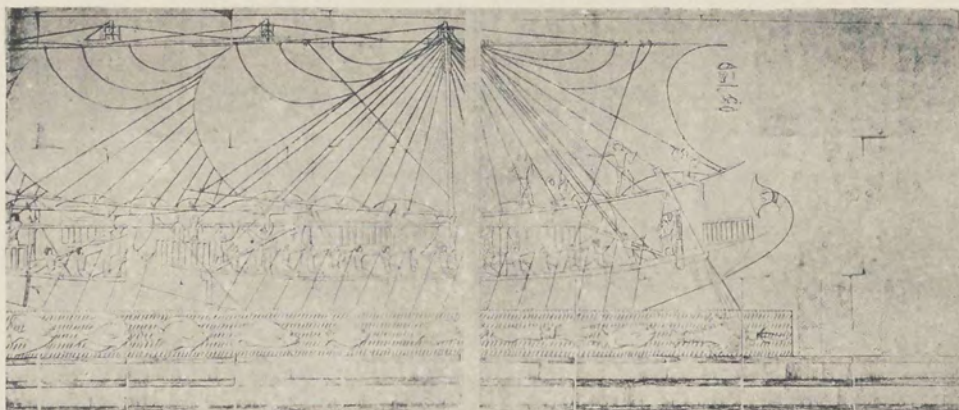


Fig. 17.

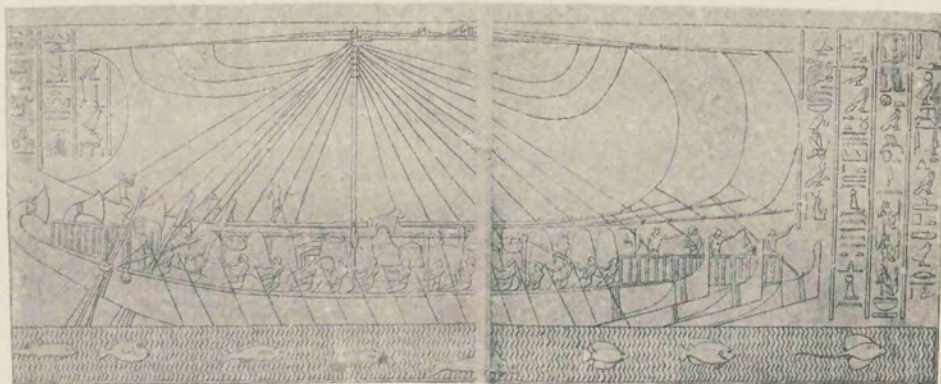


Fig. 18.

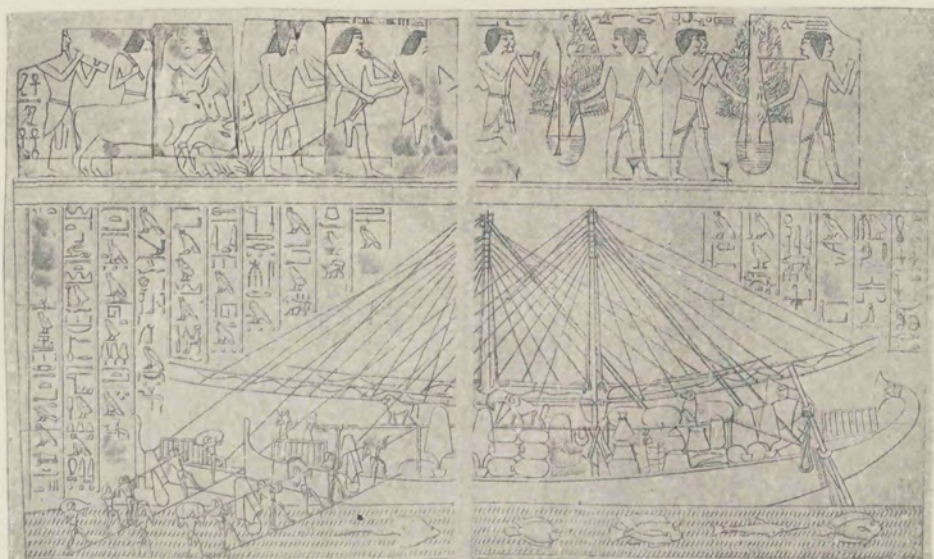


Fig. 19.

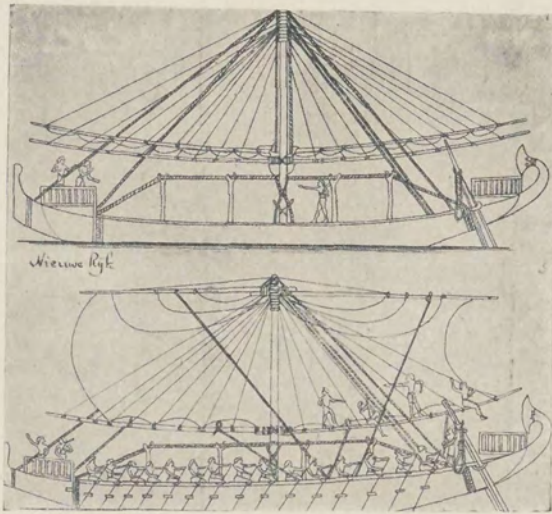
SCHIFFE DIE ZWISCHEN ÄGYPTEN UND DEM LANDE
« PUNT » VERKEHREN.
(Neues Reich.)

VESSELS TRADING BETWEEN EGYPT AND THE LAND
OF « PUNT ».
(New Empire.)

NAVIRES TRAFIQUANT ENTRE L'EGYPTE ET LE PAYS DE « PUNT ».
(Nouvel Empire.)

SCHEPEN NAAR HET LAND « PUNT ».
(Nieuwe Rijk).

VESSELS TRADING BETWEEN EGYPT
AND THE LAND OF « PUNT ».
(New Empire).



SCHIFFE DIE ZWISCHEN ÄGYPTEN
UND DEM LANDE « PUNT » VER-
KEHREN.
(Neues Reich).

NAVIRES TRAFIQUANT ENTRE
L'EGYPTE ET LE PAYS DE « PUNT ».
(Nouvel Empire).

Fig. 20.

SLAG VAN RAMSES III TEGEN DE BARBAREN.
(Plaat van Rossellini.)

SCHLACHT
DES RAMSES III
GEGEN
DIE BARBAREN.
(Tafel von Rossellini.)



BATTLE
OF RAMSES III
WITH
THE BARBARIANS.
(Plate by Rossellini.)

Fig. 21.

BATAILLE LIVRÉE PAR RAMSÈS III CONTRE LES BARBARES.
(Planche de Rossellini.)

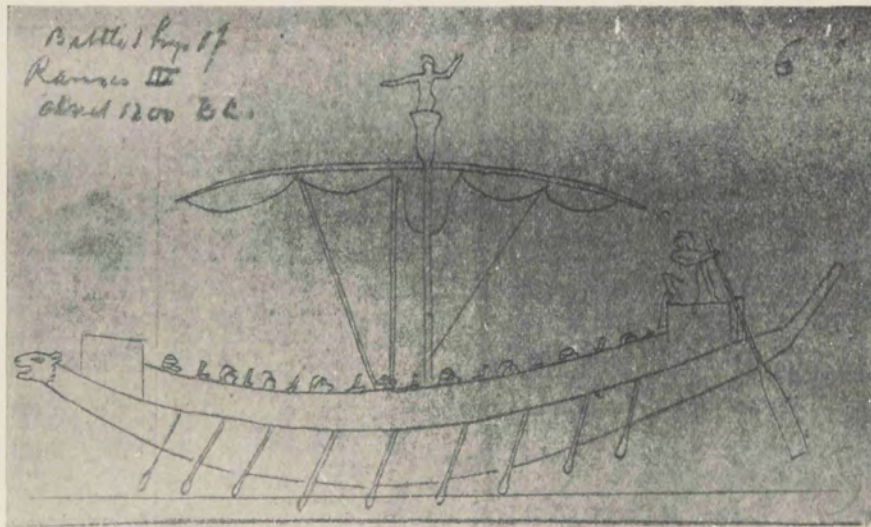


Fig. 22.

EEN DER SCHEPEN.
ONE OF THE VESSELS.

EINS DER SCHIFFE.
UN DES BATEAUX.

PHENICIË (LAYARD)
± 700 JAAR VÓÓR CHRISTUS.

PHÖNIZIEN (LAYARD)
± 700 JAHRE VOR CHR. GEB.

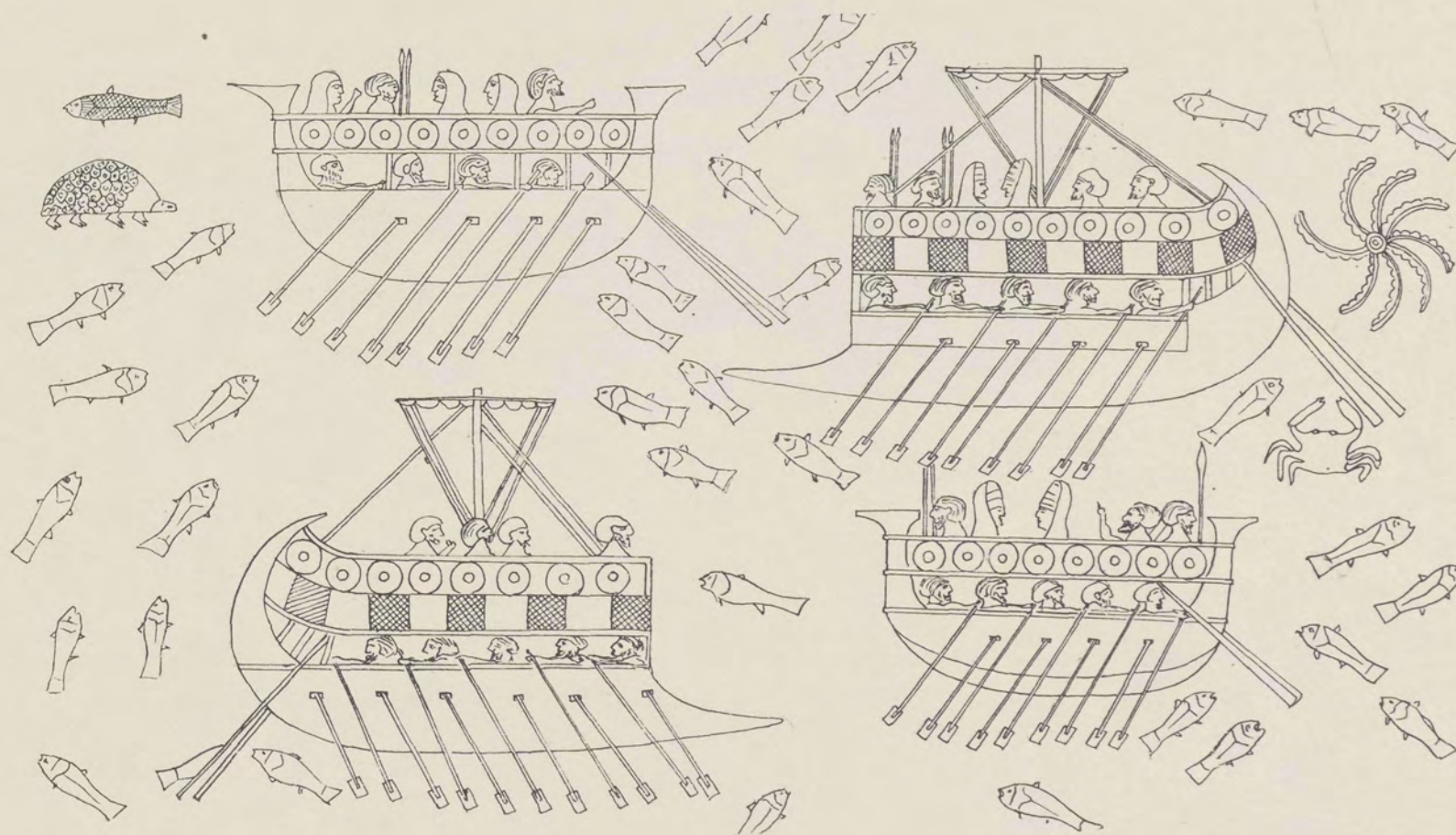


Fig. 23.

PHENICIA (LAYARD)
ABOUT 700 B. C.

PHÉNICIE (LAYARD)
± 700 AVANT JÉSUS-CHRIST.

GRIEKSCHE SCHEPEN.

GRIECHISCHE SCHIFFE.



Fig. 25.



Fig. 24.

GREEK VESSELS.

NAVIRES GRECS.

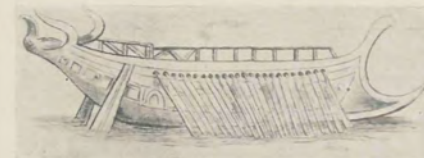


Fig. 27.



Fig. 26.

ROMEINSCHE SCHEPEN (± 200 JAAR VÓÓR CHRISTUS).

(Vergelijk fig. 66 en 67.)

RÖMISCHE SCHIFFE (± 200 JAHRE VOR CHR. GEB.).

(Siehe Abb. 66 und 67.)



Fig. 29.

ROMAN VESSELS (ABOUT 200 B. C.).

(Compare figs 66 and 67.)

NAVIRES ROMAINS (± 200 AVANT JÉSUS-CHRIST).

(Voir fig. 66 et 67.)



Fig. 28.

GRAFMONUMENT.
(Museum van oudheden te Leyden.)



GRABDENKMAL.
(Im Staatlichen Altertumsmuseum in Leyden.)

FUNERAL MONUMENT.
(Museum of antiquities of Leyden.)

MONUMENT FUNÉRAIRE.
(Musée d'antiquités de Leyde.)

Fig. 30.

ROMEINSCH HANDELSSCHIP.
(Relief Kathedraal van Salerno.)

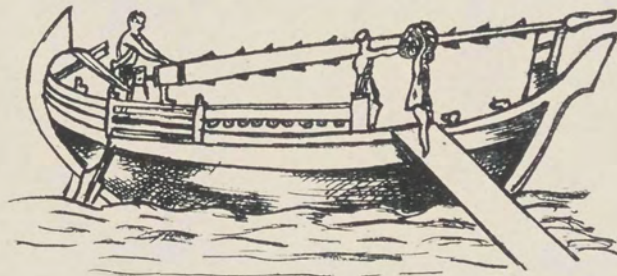


Fig. 31.

RÖMISCHES HANDELSSCHIFF.
(Relief der Kathedrale von Salerno.)

ROMAN MERCHANT SHIP.
(Relief of the cathedral of Salerno.)

NAVIRE MARCHAND ROMAIN.
(Relief de la cathédrale de Salerne.)

ROMEINSCH HANDELSSCHIP.



Fig. 32.

RÖMISCHES HANDELSSCHIFF.

ROMAN MERCHANT SHIP.

NAVIRE MARCHAND ROMAIN.



Fig. 33.
SCHIP DER MIDDELLANDSCHE ZEE.
MEDITERRANEAN SHIP.
NAVIRE DE LA MEDITERRANÉE.
(Fürtenbach 1029.)

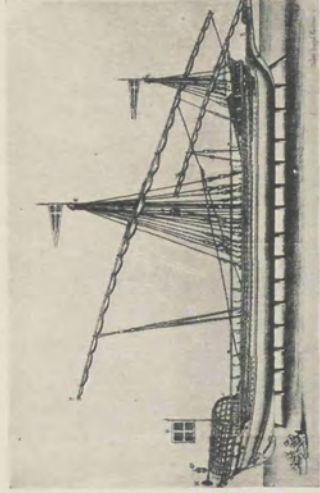


Fig. 34.
GALEI.
GALEERE.
GALLEY.
GALÈRE.

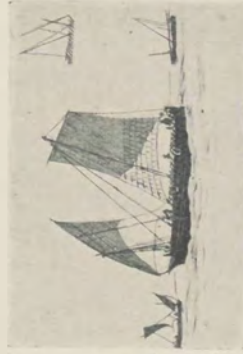


Fig. 35.
CAREBE ARABE.
ARABISCHE KAREBE.
ARABIAN CAREBE.
(Tunis.)



Fig. 37.
CAREBE TUNISIEN.
TUNESISCH KAREBE.
TUNISIAN CAREBE.



Fig. 36.
GALEIEN.
GALEERE.
GALLEYS.
GALÈRES.
(Van Yk 1070.)

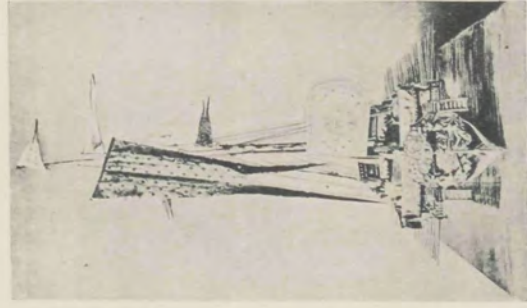
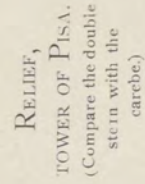


Fig. 38.
GALEI.
GALEERE.
GALLEY.
GALÈRE.
(Louvre, Paris.)



RELIEF,
TURKM ZU PISA.
(Siehe den doppelten
Vordersteven mit
der Karebe.)



RELIEF,
TOWER OF PISA.
(Compare the double
stern with the
carebe.)

Fig. 39.

RELIEF, TOREN VAN PISA.
(Vergelijk dubbele voorsteven
met de carebe.)

RELIEF DE LA TOUR DE PISE.
(Comparez la double étrave
avec le carebe.)

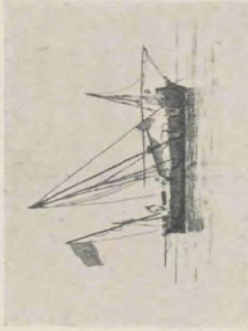


Fig. 40.
CAREBE.
KAREBE.
CAREBE.

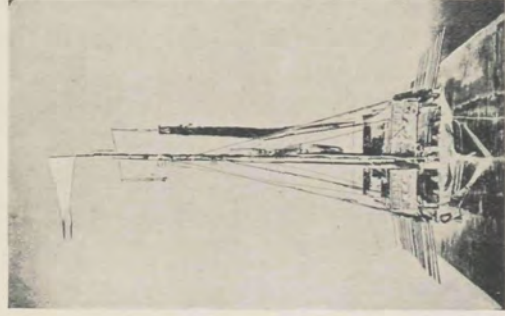


Fig. 41.
GALEI.
GALEERE.
GALLEY.
GALÈRE.
(Louvre, Paris.)

SCHEPEN VAN VENETIE.
 « BUCENTAURE »
 NAVIRES VÉNITIENS.



VENETIANISCHE SCHIFFE.
 « BUCENTAUR »
 VENETIAN VESSELS.

Fig. 42.



Fig. 43.



Fig. 45.



Fig. 44.

GALÉASSE. GALLIAS.

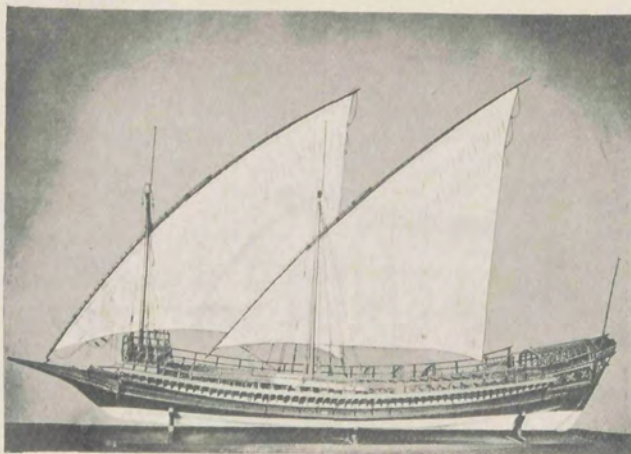


Fig. 46.

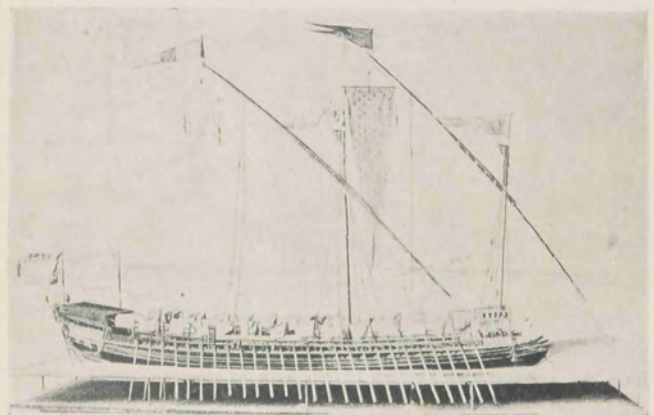


Fig. 47.

GALEI. GALEERE. GALLEY. GALÈRE.
 (Louvre, Paris.)

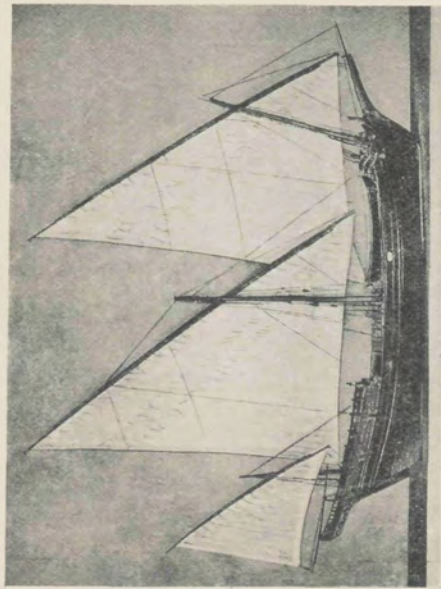


Fig. 48.
Chebec met latijnsche Zeilen.
Schebecke mit lateinischen Segeln. 1750-1786 Xebec with latin sails.
Chebec à voiles latines.

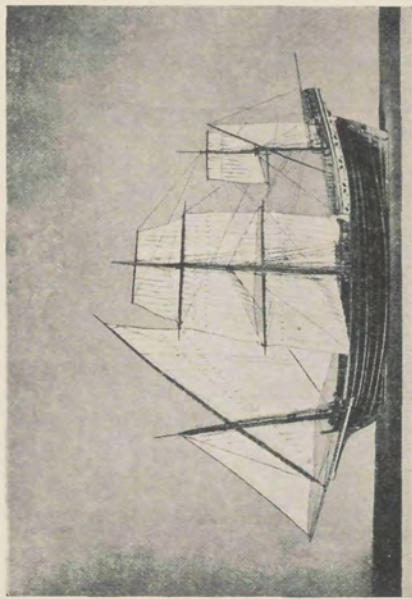


Fig. 49.
Chebec mystique.
Mystische Schebecke. 1750-1786
Mystic Xebec.

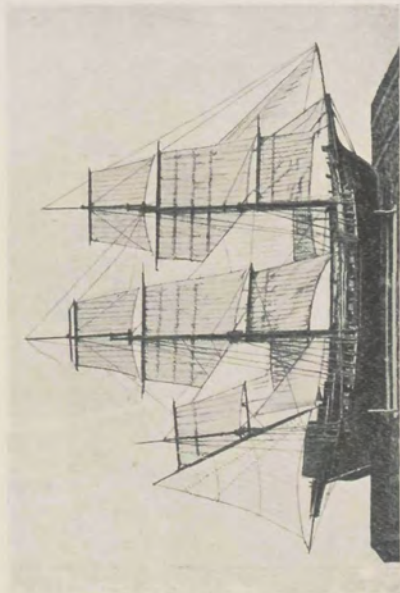


Fig. 50.
Chebec Polacre.
Polacker Schebecke. 1810
Polar Xebec.

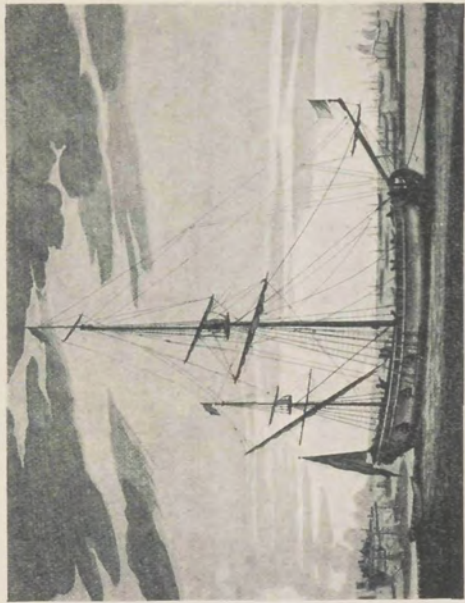


Fig. 51.
Pombardeer Galjoot. — Bombardier-Galoot. — Bomb Ketch. — Gallote à bombe.



Fig. 52.
Tartane.



Fig. 53.
Polacker. — Polacre. — Polar.



Fig. 54.



Fig. 55.



Fig. 56.

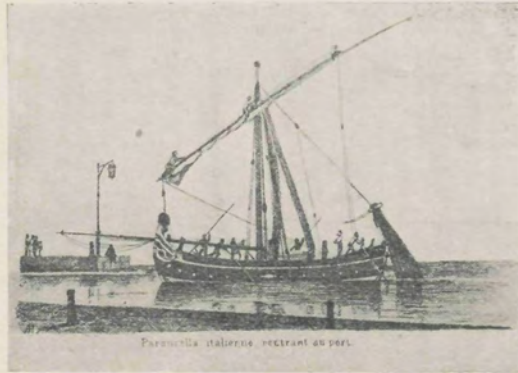


Fig. 57.



Fig. 58.



Fig. 59.



Fig. 60.

DE « SANTA MARIA » HET SCHIP VAN
COLUMBUS.

DIE « SANTA MARIA »
DES CHRISTOPH COLUMBUS

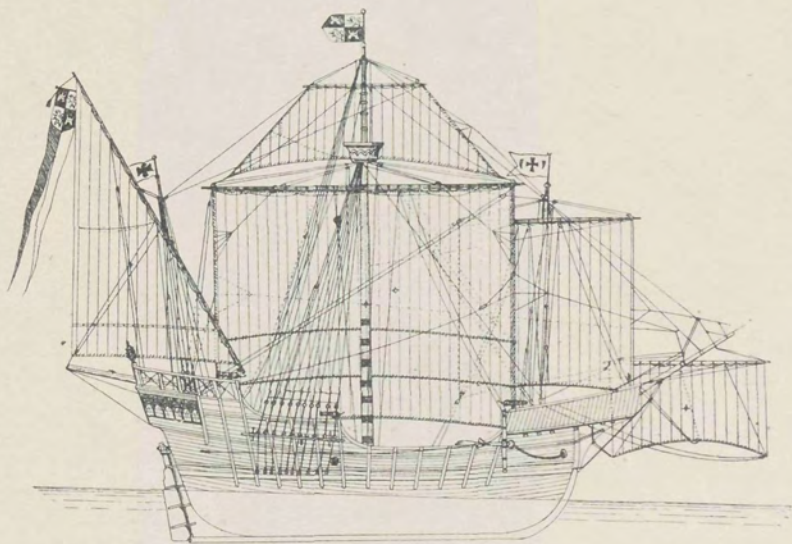


Fig. 61.

THE « SANTA MARIA »
OF CHRISTOPHER COLUMBUS.

LA « SANTA MARIA »
DE CHRISTOPHE COLOMB.

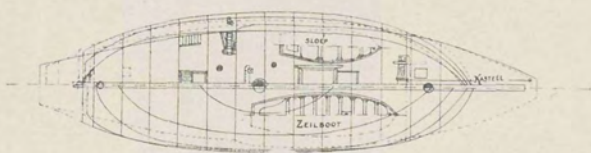


Fig. 62.

SANTA MARIA.



Fig 64

(Van Yk)

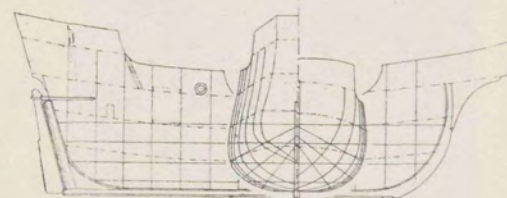
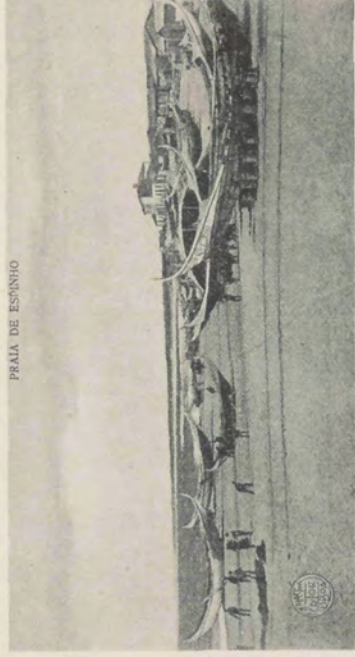


Fig. 63.

HOLMES : ANCIENT AND MODERN SHIPS, p. 182.



COSTA NOVA — Aviro, Portugal. Preparando as redes



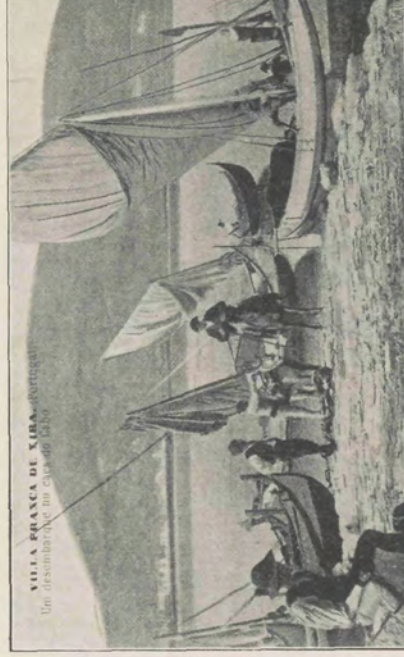
PRAMA DE ESTÓNIO

Fig. 65.

Fig. 66.



AVEIRO — (Portugal). Varimó, barco de pesca



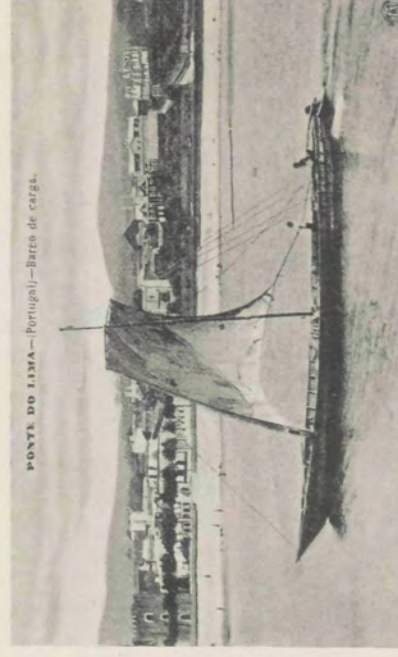
VILA FRANCA DE XIRA—Portugal.
Um desembarque no estuário do Tejo

Fig. 67.

Fig. 68.



LISBOA. — (Portugal). Cas do Aterro.



PONTE DO LIMA—Portugal—Barco de carga.

Fig. 69.

Fig. 70.



OOSTZEE

(Noordelijk Centrum).

OSTSEE

(Nördlicher Mittelpunkt).

BALTIC SEA

(Northern Centre).

MER BALTIQUE

(Centre Septentrional).

OUDE OPGEGRAVEN VIKINGERSCHEPEN



Fig. 72.



Fig. 73.

ANCIENT VIKING VESSELS (UNEARTHED)



Fig. 71.

ALTE WIKINGERSCHIFFE (AUSGEGRABEN)



Fig. 74.

ANCIENS NAVIRES DES VIKINGS (EXHUMÉS)

OUDE WIKINGERSCHEPEN.

(Museum te Kristiania.)



ALTE WIKINGERSCHIFFE.

(Museum von Christiania.)

ANCIENT VIKING VESSELS.

(Christiania Museum.)



ANCIENS NAVIRES DES WIKINGS.

(Musée de Christiania.)

Fig. 75.



Fig. 76.



Fig. 77.



Fig. 78.



Fig. 79.



Fig. 80.

OOSTZEE EN BOTNISCHE GOLF

OSTSEE UND BOTNISCHER MEERBUSSEN

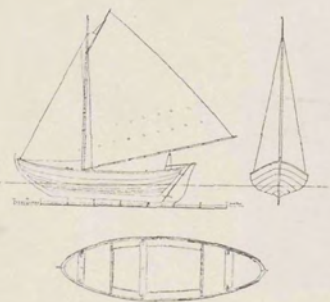


Fig. 81.

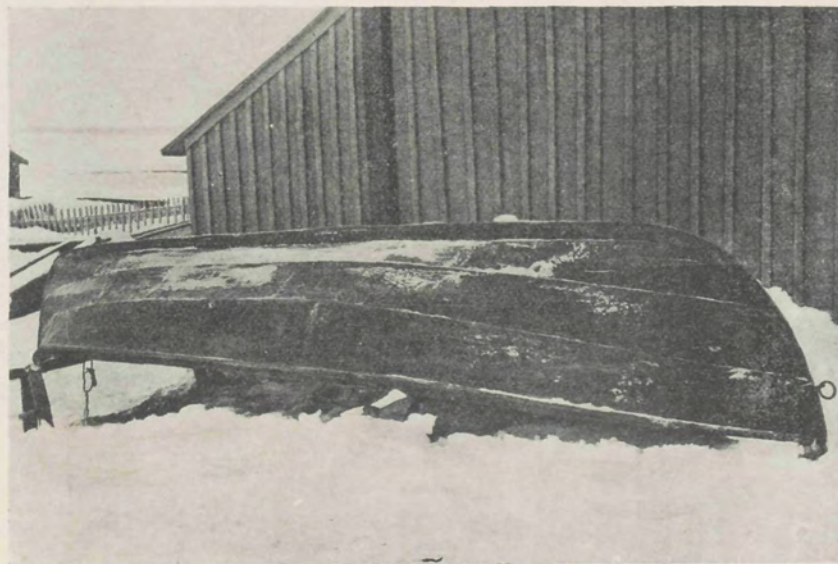


Fig. 82.

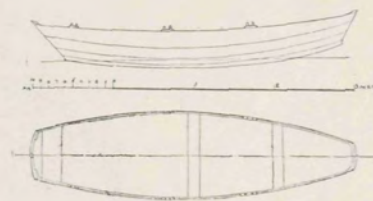


Fig. 83.

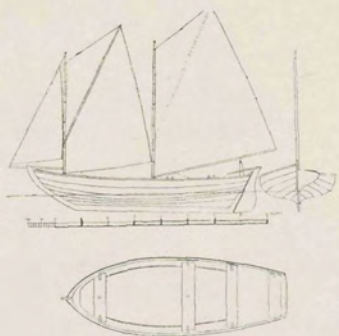


Fig. 84.



Fig. 85.



Fig. 86.

BALTIC SEA AND GULF OF BOTHNIA

MER BALTIQUE ET GOLFE DE BOTHNIE

VISSCHERSVAARTUIGEN - OOSTZEE.

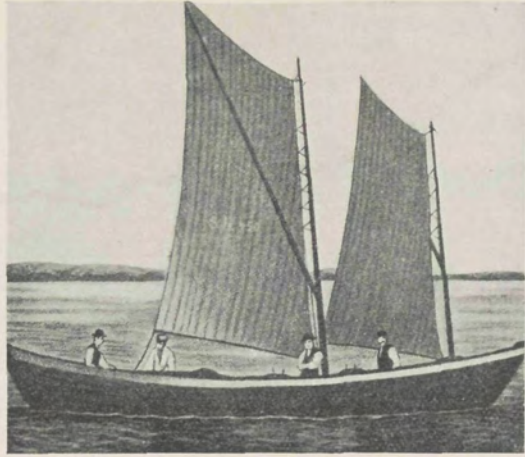


Fig. 87.

FISCHEREIFAHRZEUGE DER OSTSEE.

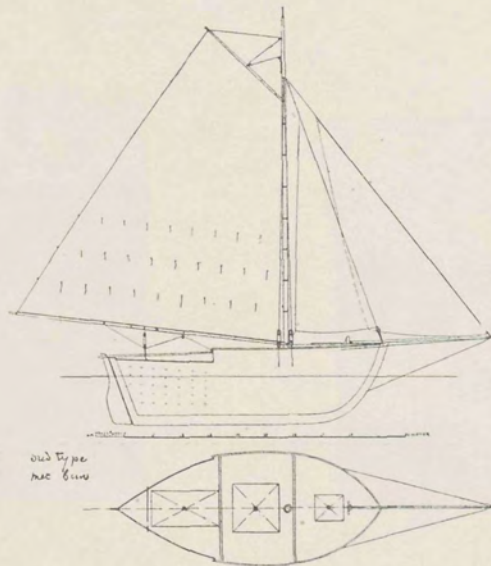


Fig. 88.

FISHING BOATS OF THE BALTIC SEA.



Fig. 89.



old type
no gun

Fig. 90.



Fig. 91.

VAARTUIGEN VAN LAPLAND, WAARMEDE DE STROOMVERSNELINGEN BEVAREN WORDEN.

FAHRZEUGE VON LAPLAND, ZUM BEFAHREN DER STROMSCHNELLEN.



Fig. 92.



Fig. 93.



Fig. 94.



Fig. 95.

LAPLANDER BOATS USED FOR RUNNING THROUGH RAPIDS.

EMBARCATIONS DE LA LAPONIE, SERVANT A TRAVERSER LES RAPIDES.

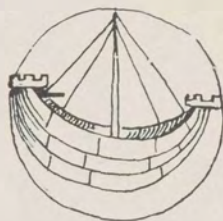


Fig. 96.

1200.



Fig. 97.

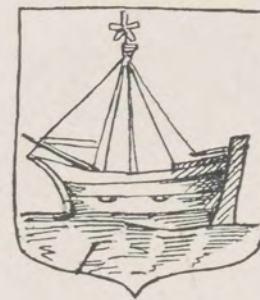


Fig. 98.

HARDERWYK.
14^e EEUW.



Fig. 99.

1437.



Fig. 100.

BOSTON 1375.



Fig. 101.

14^e EEUW.
14. JAHRHUNDERT. — 14TH CENTURY.
14^e SIÈCLE.

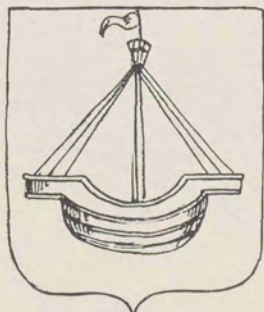


Fig. 102.

13^e EEUW.



Fig. 310.

AMSTERDAM

15^e EEUW. — 15. JAHRHUNDERT. — 15TH CENTURY. — 15^e SIÈCLE.
KOGGESCHIP. — KOGGE. — COG. — COGUE.



Fig. 104.

13^e EEUW.



Fig. 105.

13^e EEUW. — 13. JAHRHUNDERT.

13TH CENTURY. — 13^e SIÈCLE.



Fig. 106.

SIEGEL DER STADT POOLE.

SEAL OF THE TOWN OF POOLE.

SCEAU DE LA VILLE DE POOLE.



Fig. 107.

SIEGEL DER GRAFSCHAFT RUTLAND.

SEAL OF THE COUNTY OF RUTLAND.

SCEAU DU COMTÉ DE RUTLAND.



Fig. 108.

SIEGEL VON DAMME. — SEAL OF DAMME.

SCEAU DE DAMME.



Fig. 109.

13^e EEUW. — 13. JAHRHUNDERT.

13TH CENTURY. — 13^e SIÈCLE.

KOGGESCHIP. — KOGGE. — COG. — COGUE.



Fig. 110.

SIEGEL VON DOVER. — SEAL OF DOVER.

SCEAU DE DOUVRES.



Fig. 112.

TAPIJTWERK VAN BAYEUX.

WANDTEPPICH 1066 BAYEUX
VON BAYEUX. (HOLMES) TAPESTRY.

TAPISSERIE DE BAYEUX.



Fig. 111.

15^e EEUW.
15. JAHRHUNDERT (HOLMES) 15TH CENTURY
15^e SIÈCLE.

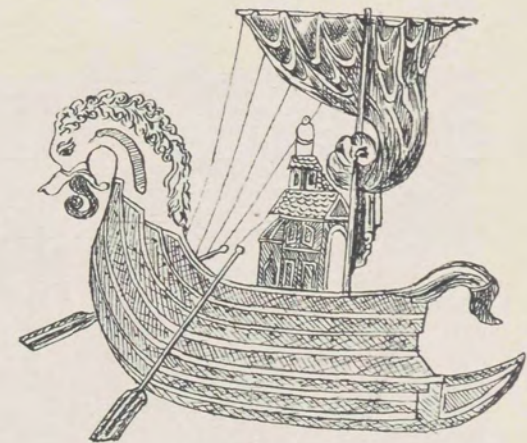


Fig. 113

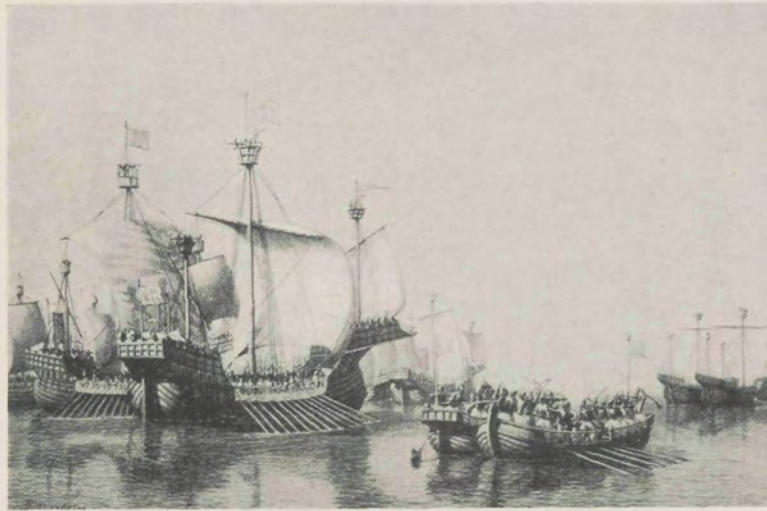
900 NA CHR.
VAN EEN OUDE ANGELSAXISCHE KALANDER.

900 NACH CHR. GEB. 900 A. C.
NACH EINEM ALTEN (HOLMES) ACCORDING TO AN OLD
ANGEL-SÄCHSISCHEN ANGLO-SAXON
KALANDER. CALENDAR.

900 APRÈS J.-CHR.
D'APRÈS UN ANCIEN CALENDRIER
ANGLO-SAXON.

SLAG OP DE MAAS (1351).

SCHLACHT AN DER MAAS (1351).



BATTLE OF THE MEUSE (1351).

BATAILLE SUR LA MEUSE (1351).

Fig. 114.



Fig. 115.

SLAG OP DE GOUWE (1304).

SCHLACHT AN DER GOUWE (1304). BATTLE OF THE GOUWE (1304).

BATAILLE SUR LA GOUWE (1304).

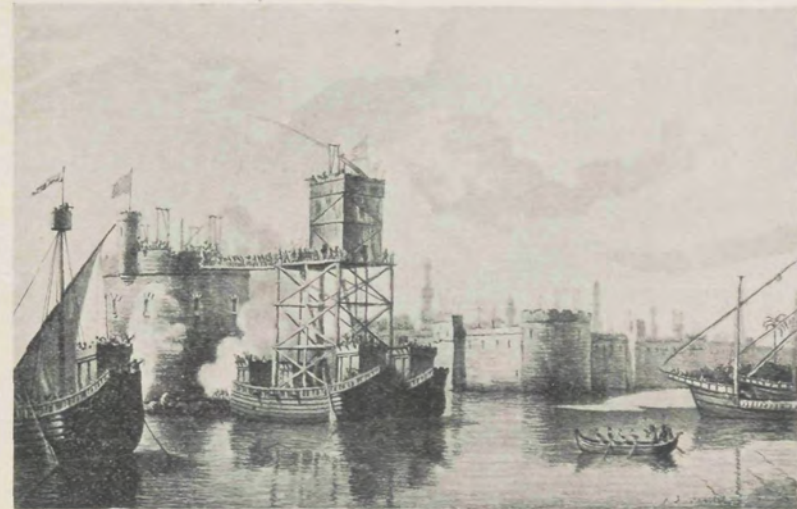


Fig. 116.

INNEMING VAN DAMIATE (1218).

(Naar Schotel.)

EINNAHME VON DAMIETTE (1218). TAKING OF DAMIETTE (1218).

(Nach Schotel.)

(According to Schotel.)

PRISE DE DAMIATE (1218).

(D'après Schotel.)

INLADING VAN TROEPEN.
(Miniatur van 1488.)

EMBARKING TROOPS.
(Miniature of 1488.)

Fig. 117.

VLAAMSCHE MINIATUUR, EINDE 15^e EEUW.
(Philips van Kleeef)

FLÄMISCHE MINIATUR,
ENDE DES 15. JAHRHUNDERTS.
(Philipp von Cleve.)

FLEMISH MINIATURE,
END OF THE 15TH CENTURY.
(Philips van Kleeef)

MINIATURE FLAMANDE, FIN DU 15^e SIÈCLE.
(Philippe de Clèves.)

Fig. 118.

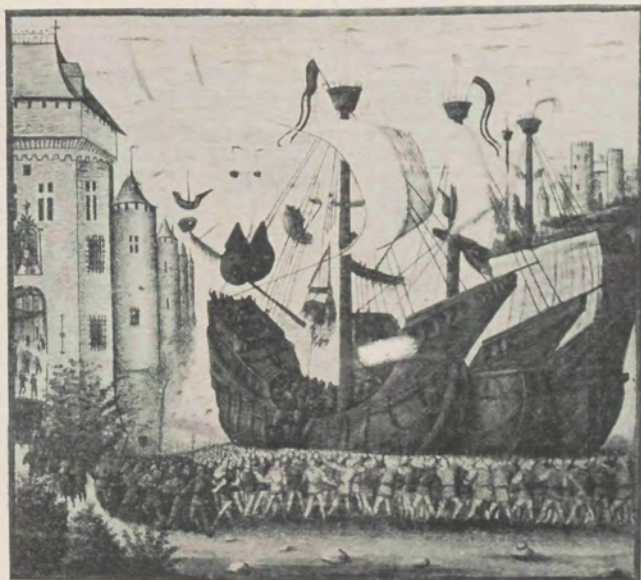


Fig. 117.

EINSCHIFFUNG VON TRUPPEN.
(Miniatur von d. J. 1488.)

EMBARQUEMENT DE TROUPES.
(Miniature de 1488.)

Fig. 117.

SCHIP MET 24 STUKKEN (1482).
(Miniatur.)

SCHIFF MIT 24 KANONEN (1482).
(Miniatur.)

24 GUN SHIP (1482).
(Miniature.)

NAVIRE AVEC 24 PIÈCES (1482).
(Miniature.)

Fig. 119.



Fig. 118.



Fig. 119.



Fig. 120.

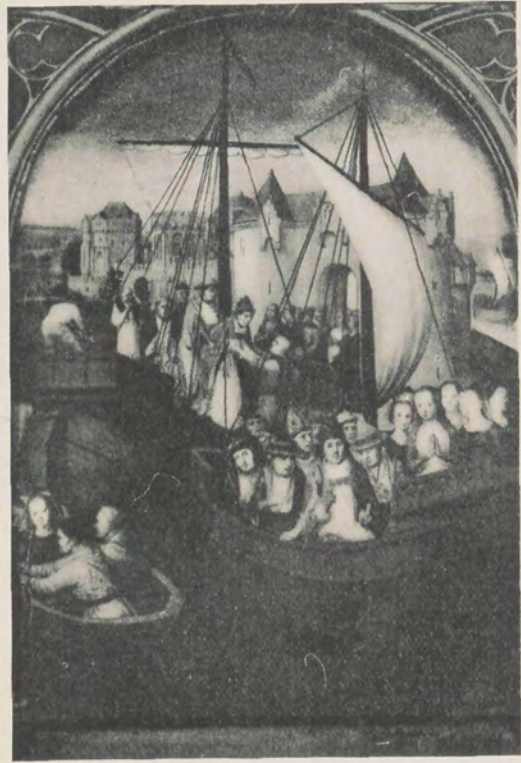


Fig. 121.

15^e EEUW.
 15. JAHRHUNDERT. — 15TH CENTURY.
 15^e SIÈCLE.



Fig. 122.



Fig. 123.

BRUGGE : HOSPITAAL ST-JAN. — BRUGES : ST-JOHN'S HOSPITAL.
 BRUGGES : HÔPITAL ST-JEAN.



Fig. 125.

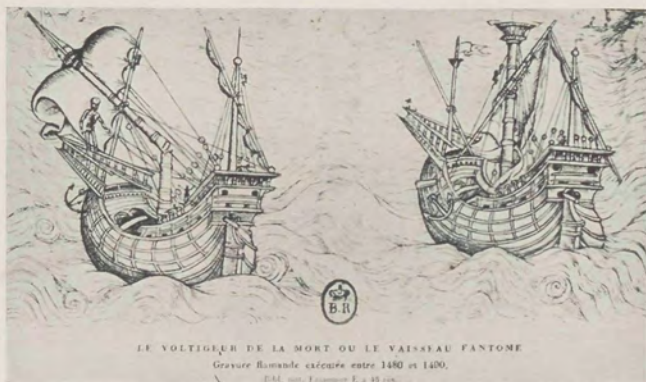


Fig. 124.

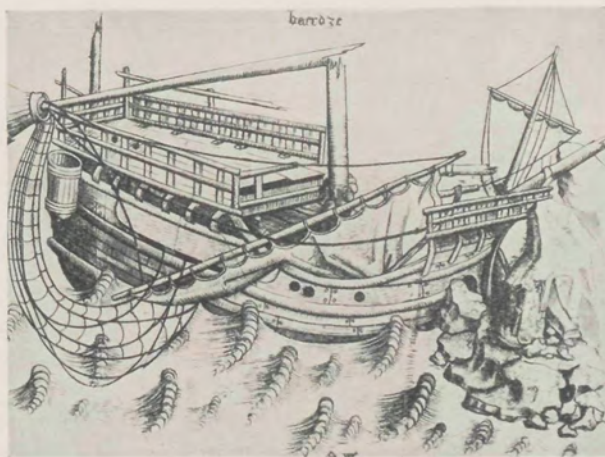


Fig. 126.



Fig. 127.

VLAAMSCH E GRAVUREN 15^e EEUW (MEESTER W. A.).
 FLÄMISCHE STICHE AUS DEM 15. JAHRHUNDERT (MEISTER W. A.).
 FLEMISH ENGRAVINGS OF THE 15TH CENTURY (W. A. MAITRE).
 GRAVURES FLAMANDES DU 15^e SIÈCLE (MAÎTRE W. A.).

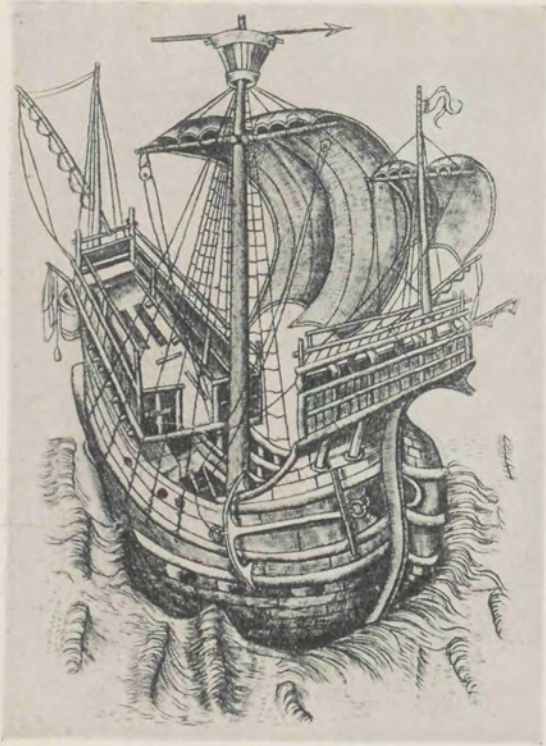


Fig. 123.



Fig. 129.

VLAAMSCH E GRAVUREN, 15^e EEUW (MEESTER W. A.).

FLÄMISCHE STICHE AUS DEM 15. JAHRHUNDERT (MEISTER W. A.). FLEMISH ENGRAVINGS OF THE 15TH CENTURY (W. A. MAITRE).

GRAVURES FLAMANDES DU 15^e SIÈCLE (MAITRE W. A.).



Fig. 130.



Fig. 131.

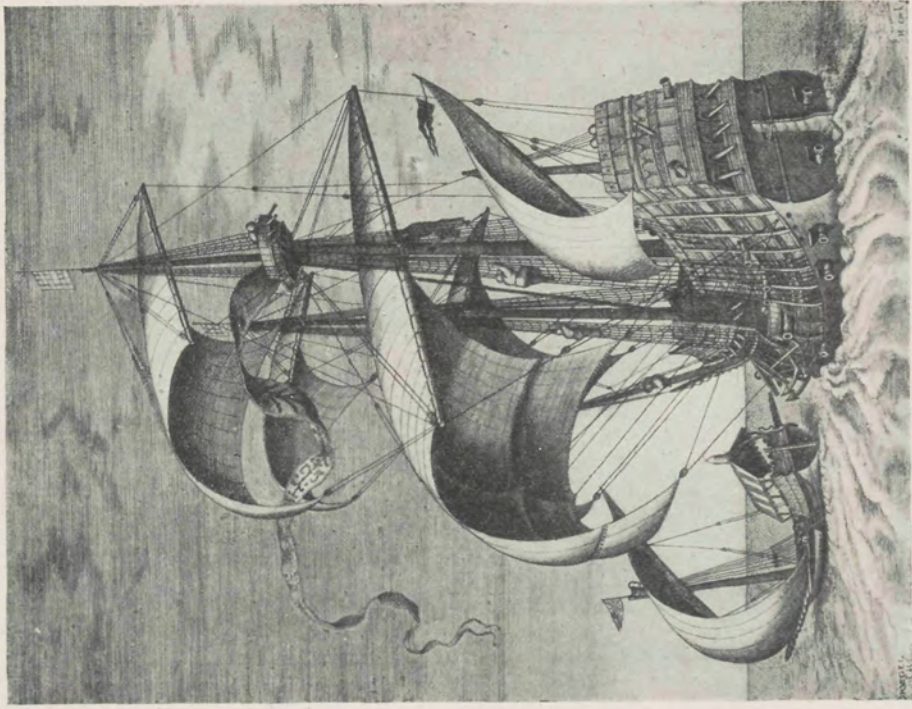


Fig. 132



Fig. 133

(Breugel.)



Fig. 134.

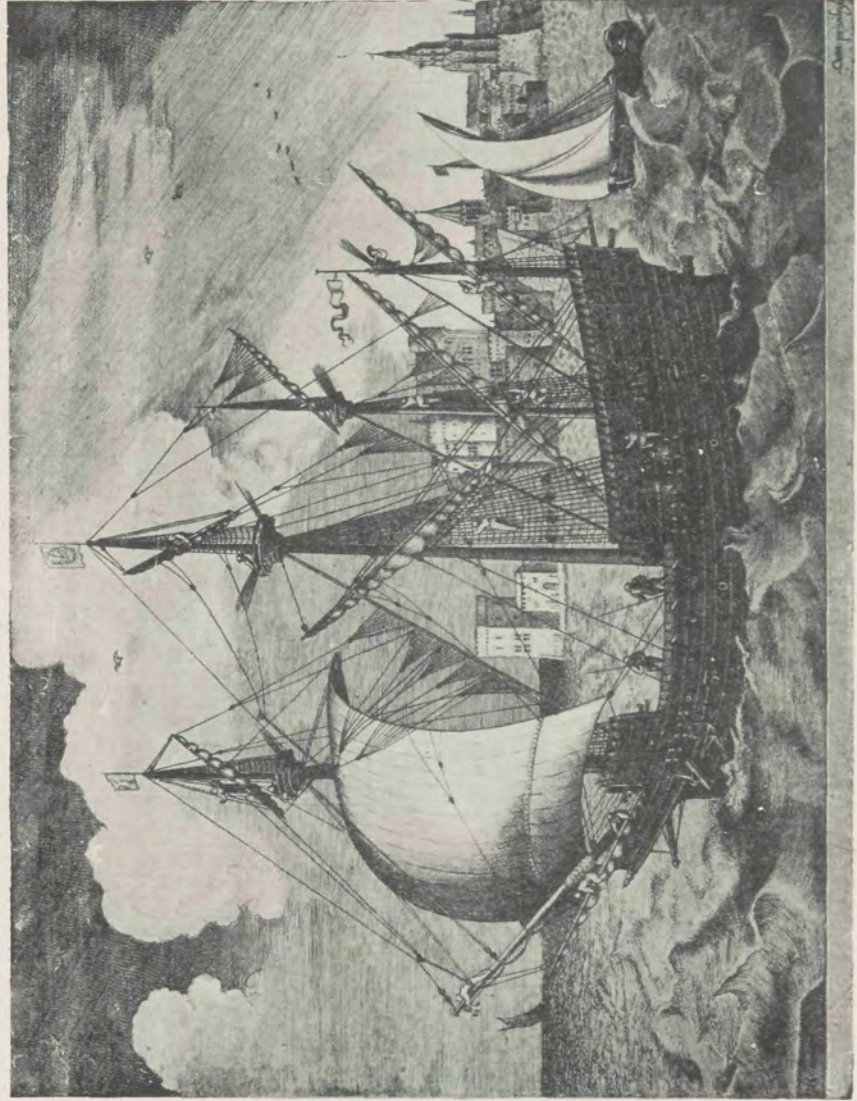


Fig. 135.

(Beugel.)



Fig. 136.

JONAS TE WATER GELATEN (1518-1525).
Naarden (Holland).

JONAS IM WASSER GEWORFEN. JONAS CAST INTO THE SEA.
Naarden (Holland). Naarden (Holland).

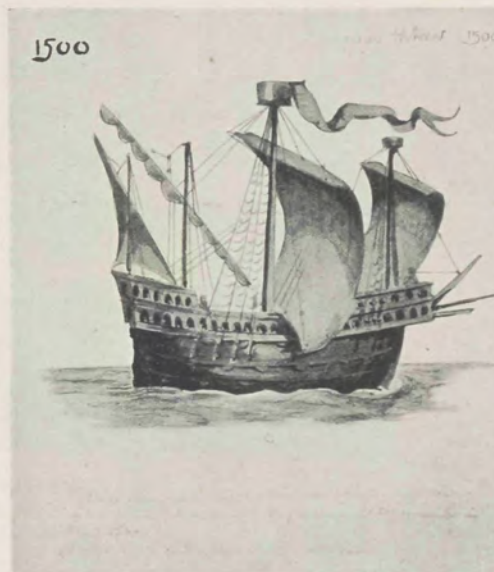
JONAS JETÉ A L'EAU (1518-1525).
Naarden (Hollande).
(H. Kleinmann en Co Haarlem)
Holland.



Fig. 137

SCHIP DER
DIEMERKERK.
(± 1500)
(Nicolas Witsen.)

SCHIFF AUS DER
KIRCHE IN DIEMER.
(± 1500)
(Nicolas Witsen.)



BOAT FROM THE
CHURCH AT DIEMER
(± 1500)
(Nicolas Witsen.)

BATEAU DE
L'ÉGLISE DE DIEMER
(± 1500)
(Nicolas Witsen.)

Fig. 138.

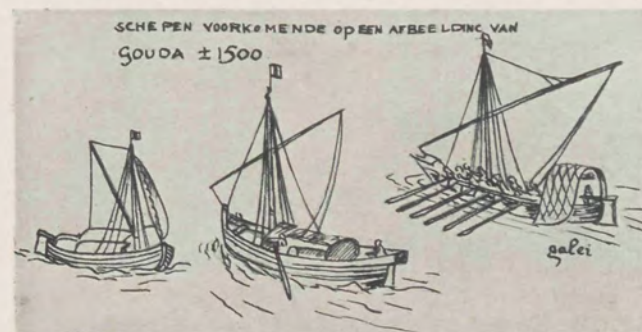
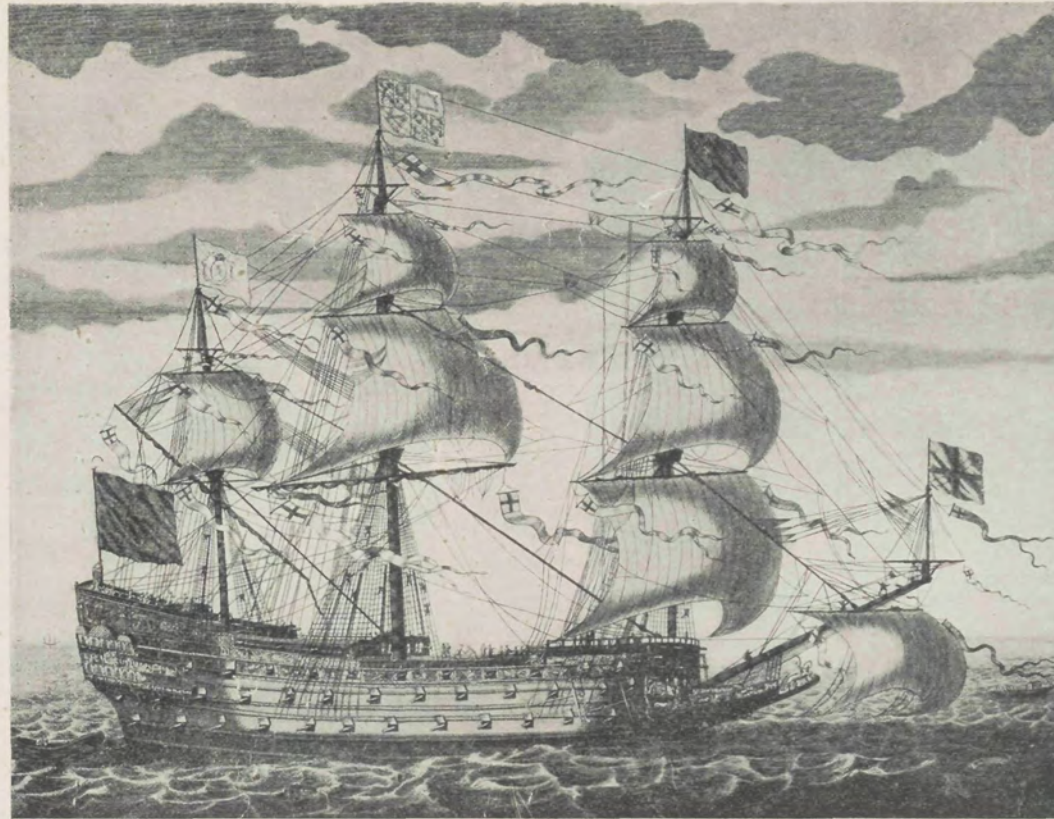


Fig. 139.

KONINKLIJK SCHIP
VAN ENGELAND
17^e EEUW.

ROYAL SHIP
OF ENGLAND
17TH CENTURY.



KÖNIGLICHES SCHIFF
VON ENGLAND
17. JAHRHUNDERT.

BATEAU ROYAL
D'ANGLETERRE
17^e SIÈCLE.

Fig. 140.

Near Holbein.
Nach Holbein.
According to Holbein.
D'après Holbein.



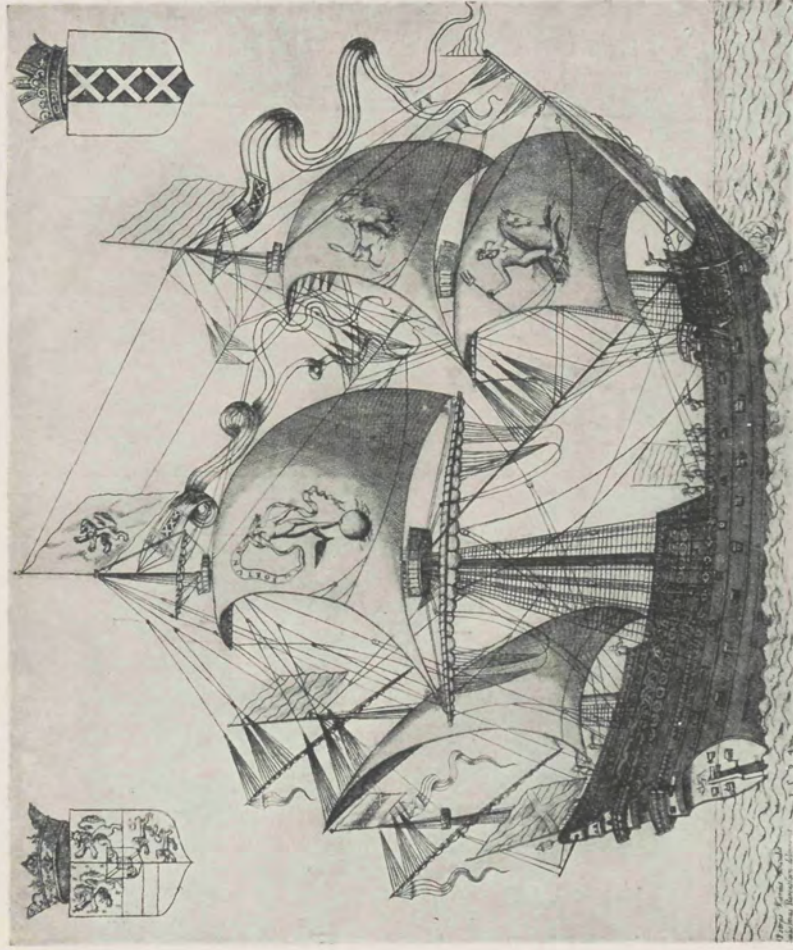
Fig. 141.
1520



Fig. 142.
1523



Fig. 143.
1594



HOLLANDSCH SCHIP. HOLLÄNDISCHES SCHIFF. 1594 DUTCH SHIP. NAVIRE HOLLANDAIS.



Voor Antwerpen (Galei). Vor Antwerpen (Galeere). ± 1600 Off Antwerp (Galley). Devant Anvers (Galère).



Fig. 146.
1626

SCHIP VAN ADMIRAAL TROMP.
(Begin 17^e eeuw.)

SCHIFF DES ADMIRALS TROMP.
(Anfang des 17. Jahrhunderts.)



ADMIRAL TROMP'S SHIP.
(Beginning of 17th Century.)

VAISSEAU DE L'AMIRAL TROMP.
(Début du 17^e siècle.)

ALTES MODELL DER STADT ZIERICKZEE.
(Anfang des 17. Jahrhunderts.)

Fig. 147.



Fig. 148

FLUIT, PLAAT VAN 1647.

FLÛTE, STICH AUS 1647. FLUTE, ENGRAVING OF 1647.

FLUTE, GRAVURE DE 1647.

SCHIP VAN ADMIRAAL DE RUYTER.
(Midden 17^e eeuw.)

SCHIFF DES ADMIRALS DE RUYTER.
(Mitte des 17. Jahrhunderts.)

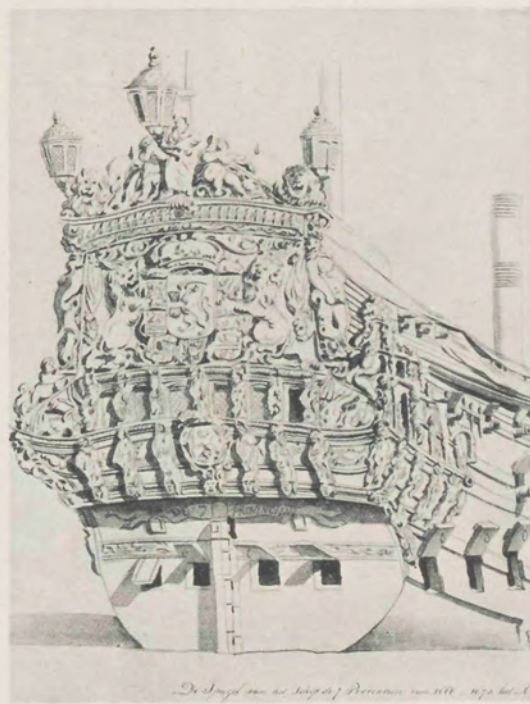


Fig. 150.



Fig. 149.

OUDMODEL VAN DE STAD ZIERICKZEE.
(Begin 17^e eeuw.)

OLD MODEL OF THE CITY
OF ZIERICKZEE.
(Beginning of the 17th Century.)

ANCIEN MODÈLE DE LA VILLE
DE ZIERICKZEE.
(Début du 17^e siècle.)

ADMIRAL DE RUYTER'S FLAG SHIP.
(Middle of the 17th Century.)

VAISSEAU DE L'AMIRAL DE RUYTER.
(Milieu du 17^e siècle.)



Fig. 151.



Fig. 152.

O. I. COMPAGNIE SCHIP
(begin 18^e Eeuw).

SCHIFF DER OST-INDISCHEN KOMPAGNIE
(Anfang des 18. Jahrhunderts).

SHIP OF EAST INDIA COMPANY
(beginning of 18th Century).

NAVIRE DE LA COMPAGNIE DES INDES
(commencement du 18^e siècle).

Verzameling van
Mr. van Gijn, Dordrecht.

Sammlung des Herrn
van Gijn, Dordrecht.

Collection of Mr. van
Gijn, Dordrecht.

Collection de M. van
Gijn, Dordrecht.



Fig. 153.

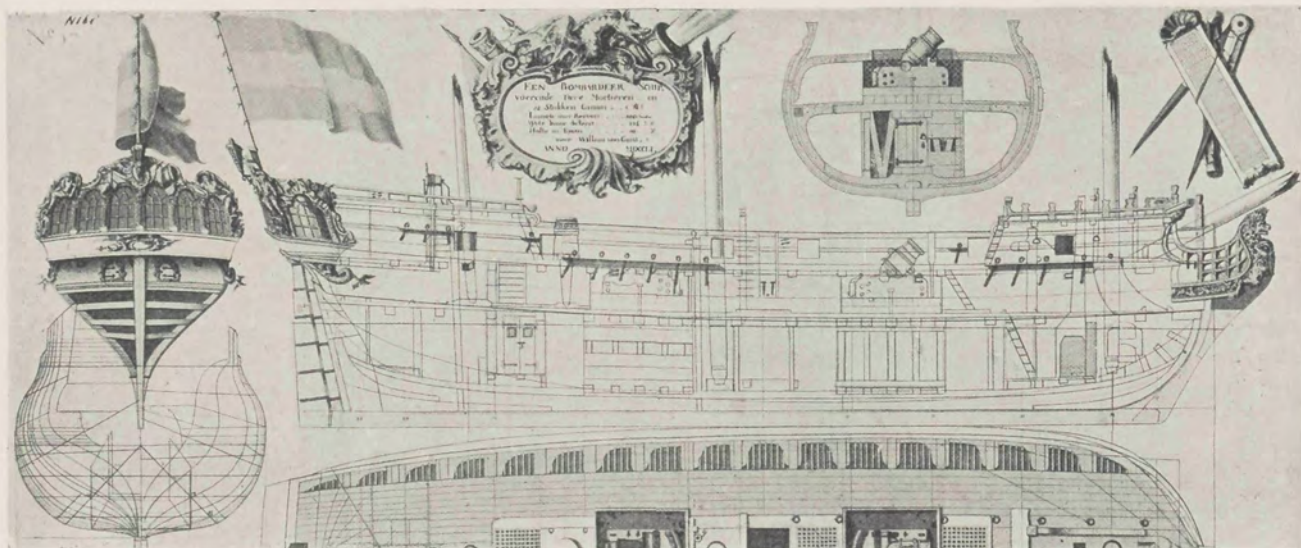


Fig. 154.

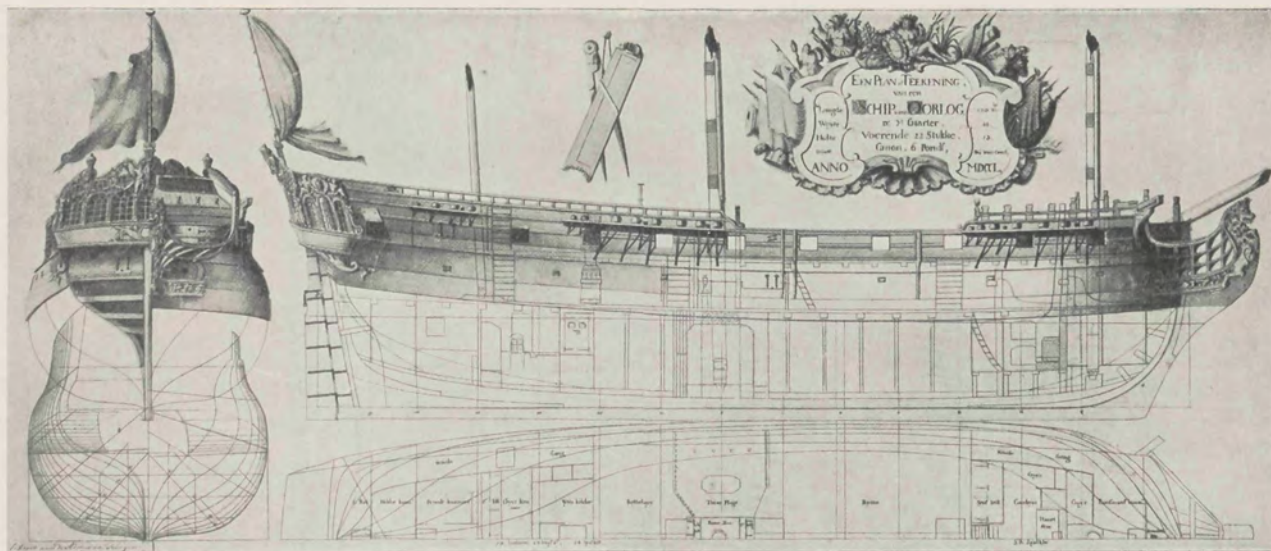


Fig. 155.

SCHEPEN VAN OORLOG.
 KRIEGSSCHIFFE. 1750. MAN OF WAR.
 VAISSEUX DE GUERRE.

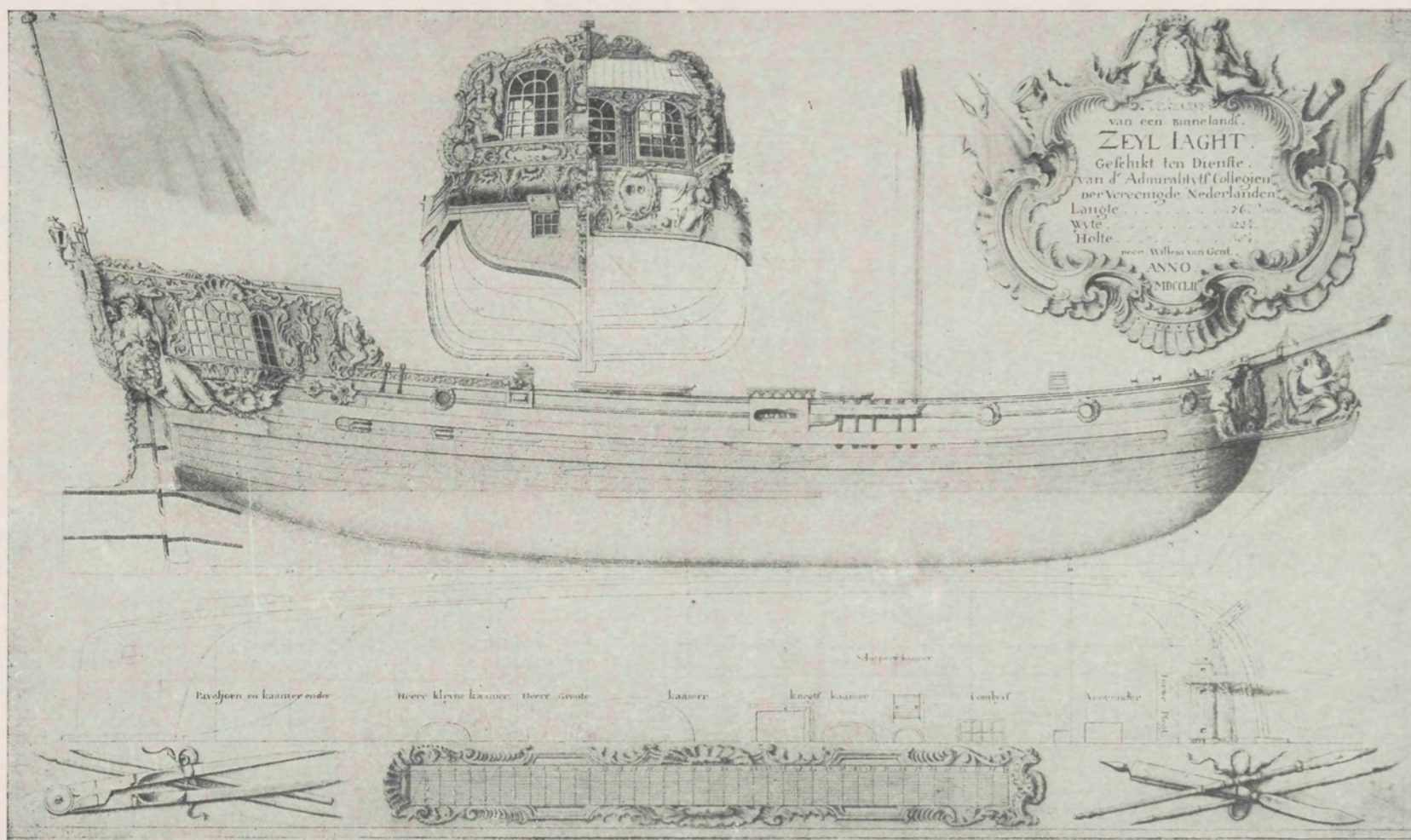


Fig. 150

ZEILJACHT
SEGELYACHT. 1752. SAILING YACHT.
YACHT A VOILES.



Fig. 157.

EGMONDERPINK.

1765

SCHIP VAN OORLOG

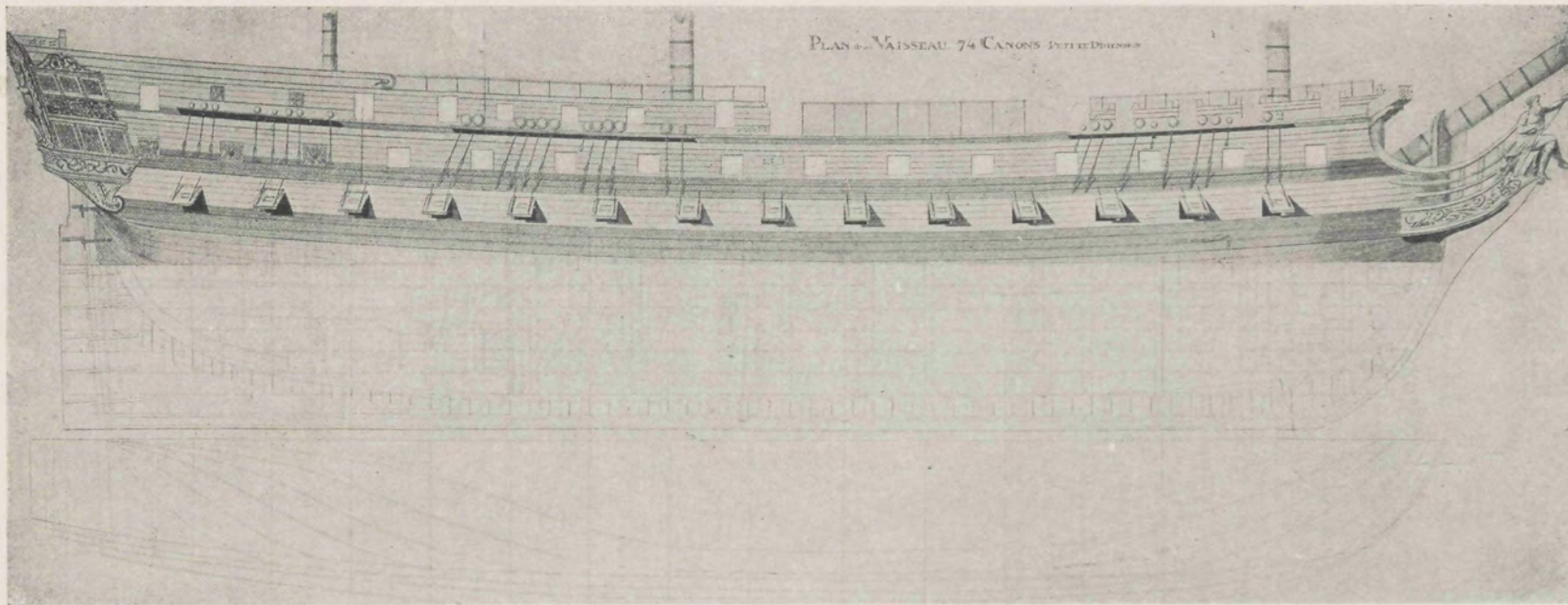


Fig 158.



Fig. 159

SNAUWSCHIP.
(Einde 18^e eeuw.)

SCHNAUSCHIFF.
(Einde des 18. Jahrhunderts.)

RIND.
(End of the 18th Century.)

SENEAU.
(Fin du 18^e siècle.)

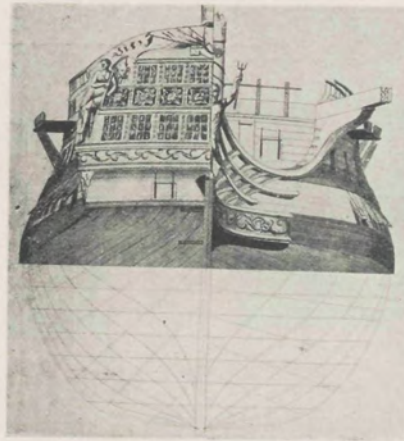
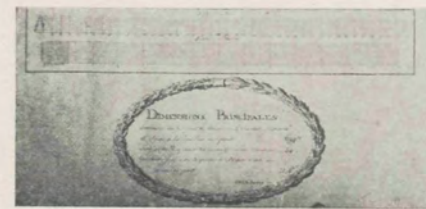


Fig 160.



(Begin 19^e eeuw.)

(Anfang des 19. Jahrhunderts) (Beginning of 19th Century)

(Début du 19^e siècle.)

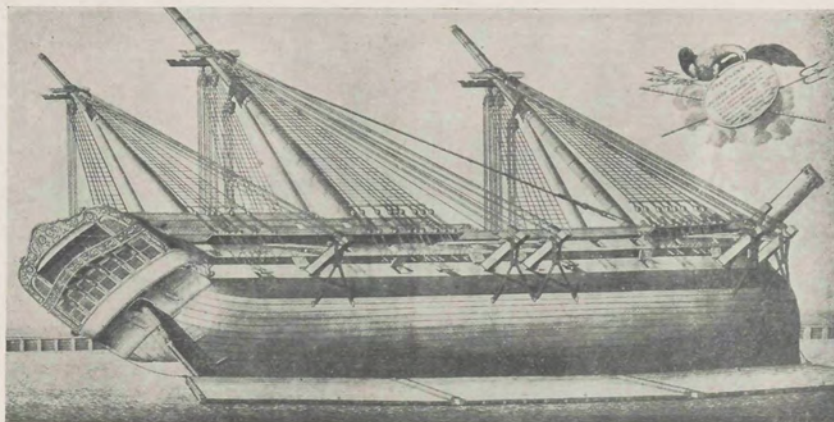


Fig. 161.

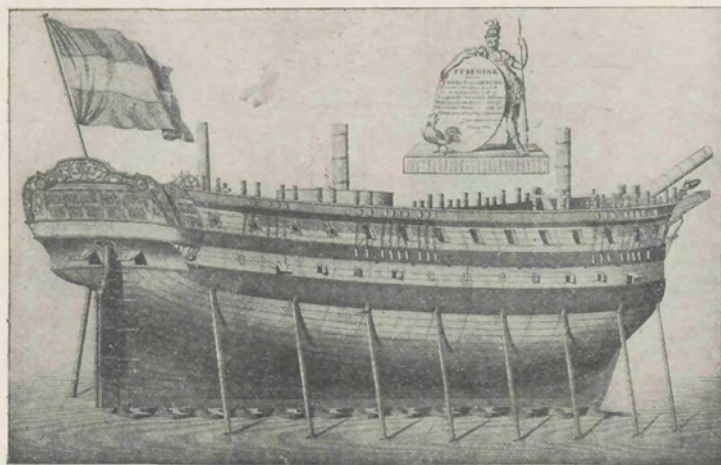


Fig. 162.

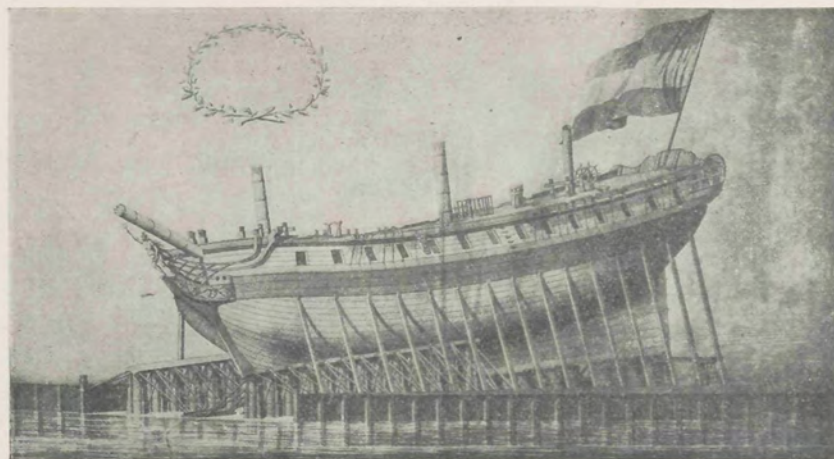


Fig. 163.

ANFANG DES 19. JAHRHUNDERTS.

BEGIN 19^e EEUW.
DÉBUT 19^e SIÈCLE.

BEGINNING OF THE 19TH CENTURY.

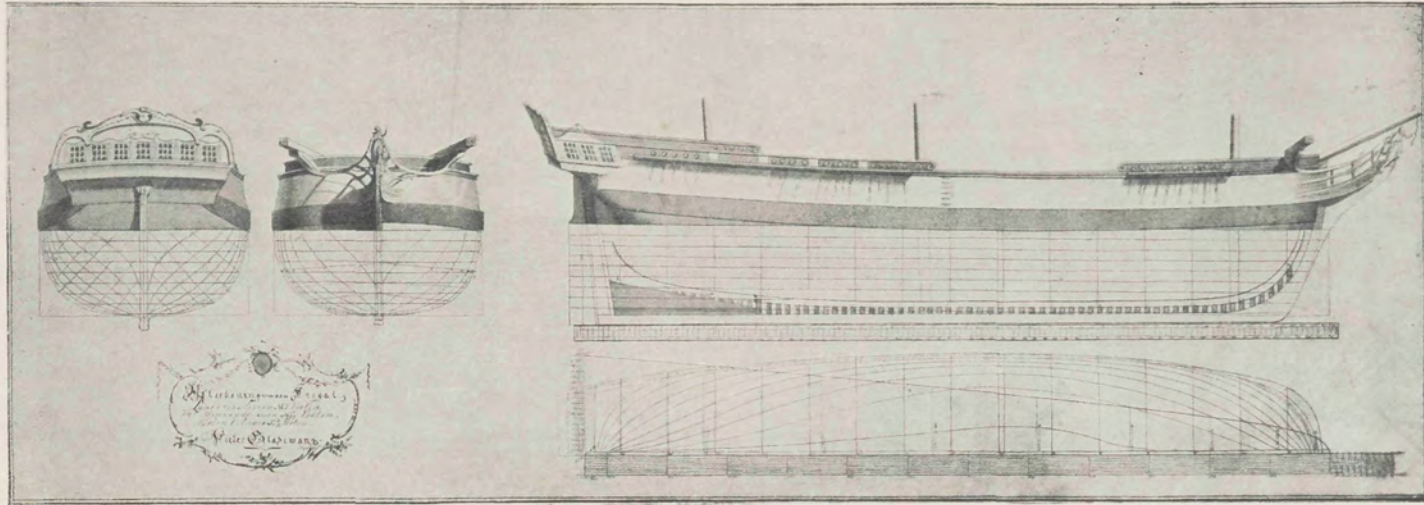


Fig. 164.

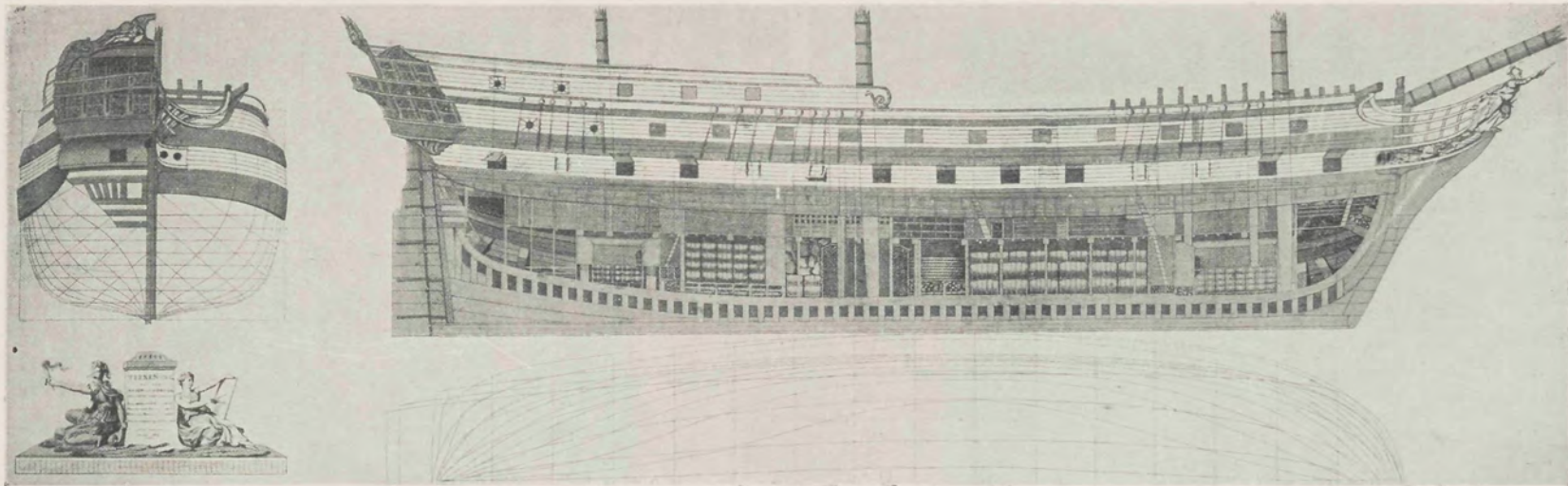


Fig. 165.

BEGIN 19^e EEUW.

ANFANG DES 19. JAHRHUNDERTS.

BEGINNING OF THE 19TH CENTURY.

DÉBUT DU 19^e SIÈCLE.

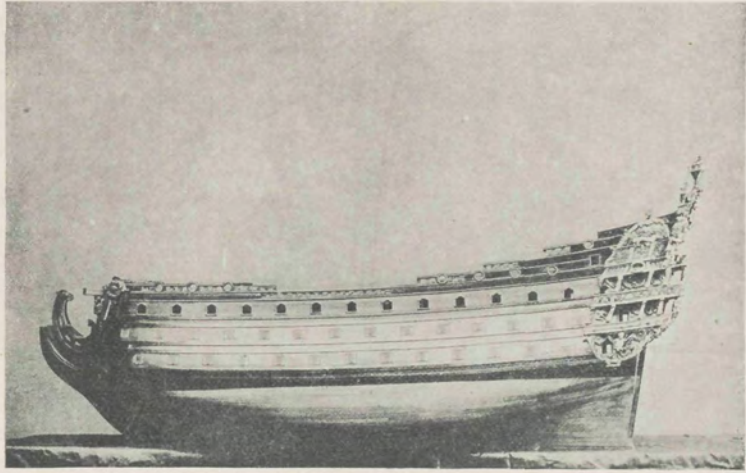


Fig. 166.

1700

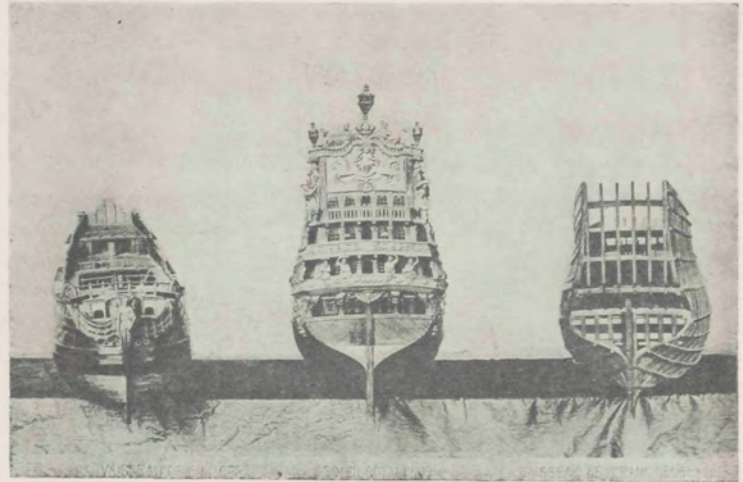


Fig. 167.

1780

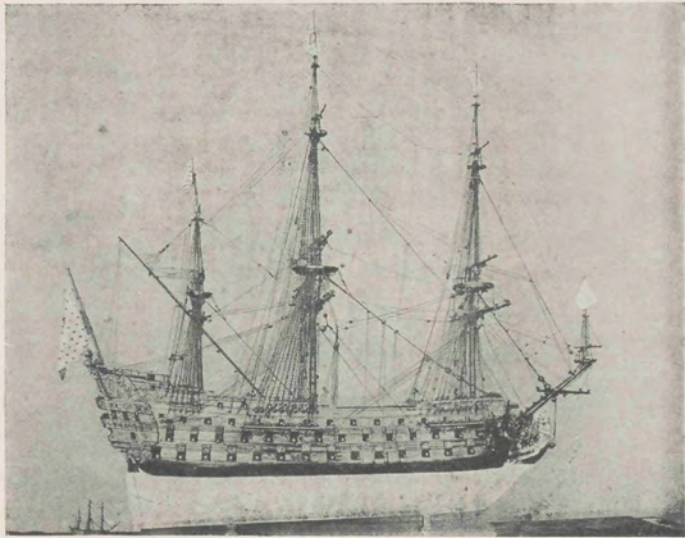


Fig. 168.

1690

FRANKRIJK.

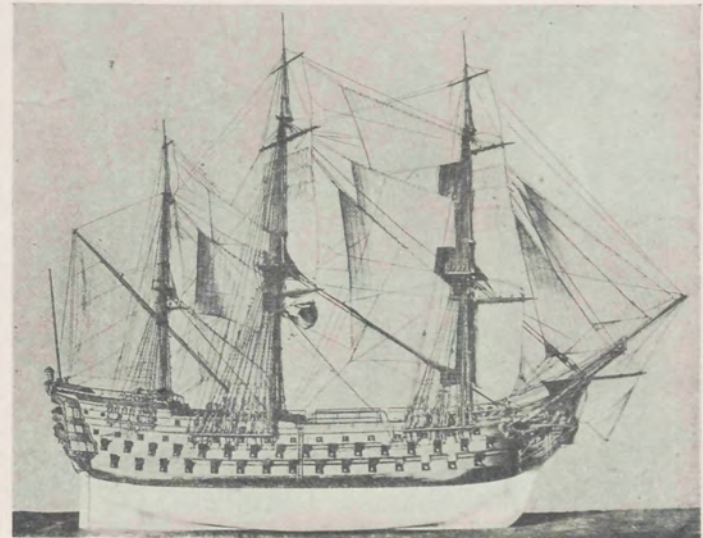


Fig. 169.

1690

FRANCE.

FRANKREICH.

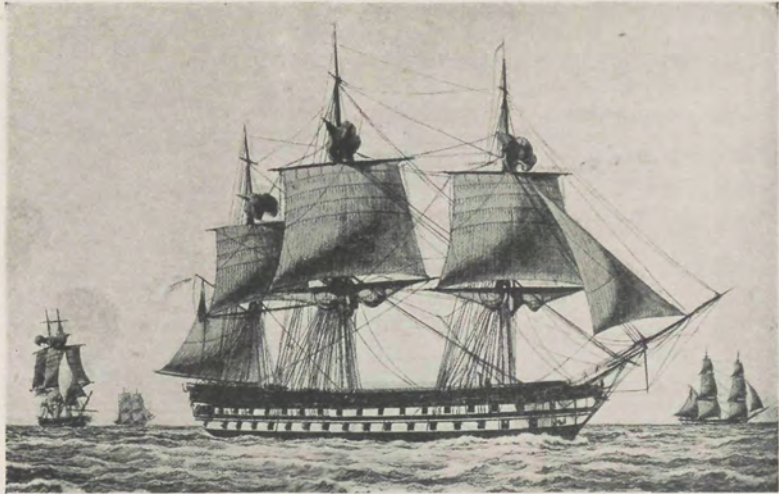


Fig. 170
1808-1827

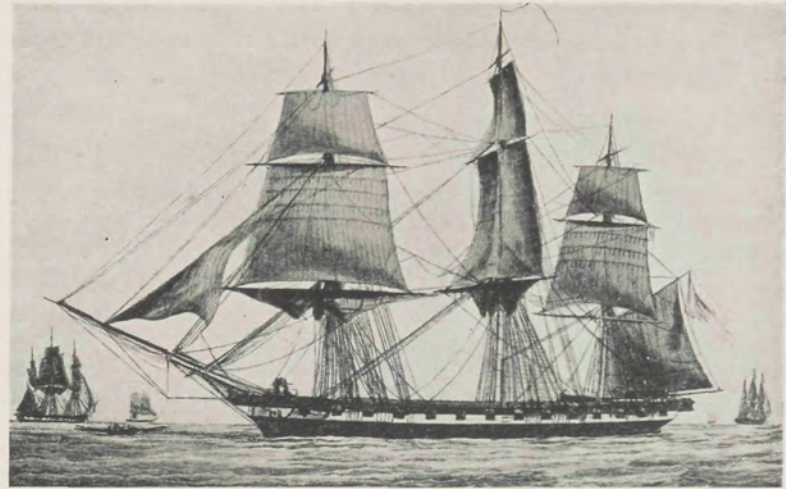


Fig. 171.
1829

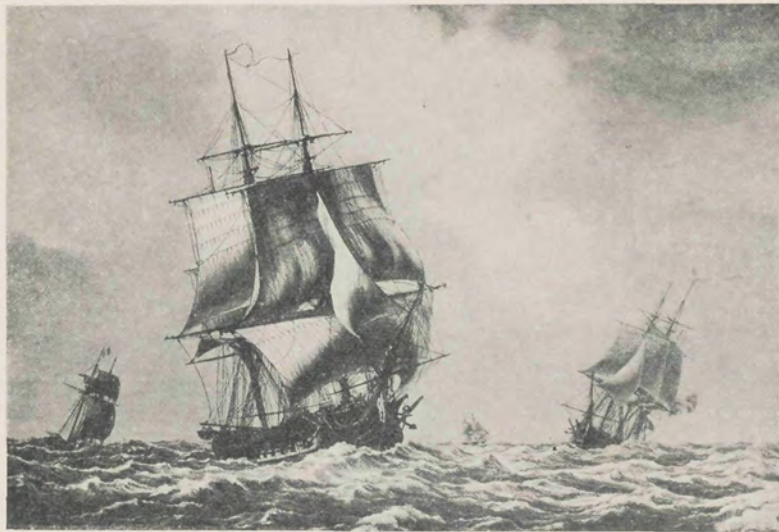


Fig. 172.

1804

FRANKRIJK.

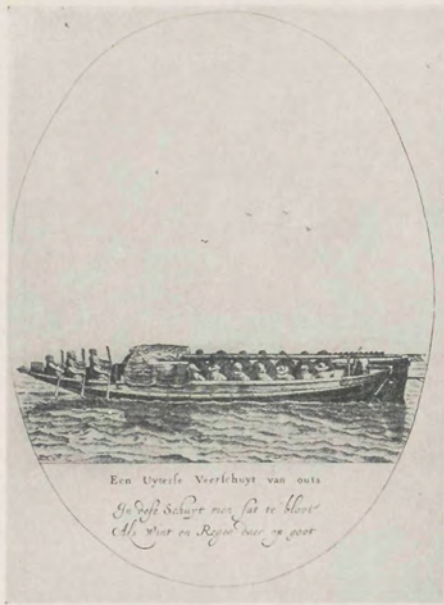
FRANKREICH.

FRANCE.



Fig. 173.

1847



Een Uytsele Veerschuyt van outs
*Geziedt Schuyt men, dat se bloot
 Als 't was en Reijde over de goot*

Fig. 174.



Een Delfse, Rotterdamse, Goutle of Haeghe veerschuyt
*De Goutle is een klein schip
 Als 't reijde over de wateren*

Fig. 175.

VEERSCHUYT.

BAC.

FÄHRE.

FERRY.

LICHTER.

LEICHTER.



Een Amsterdamsche Lichter.

Een Wieringer Lichter.

Fig. 176.

LIGHTER.

ALLÈGE.



Een Lichter sonder mall
*Is lichten menich Schip bequamen
 Daar of veert de Schip linnen nuem*

Fig. 177.

Begin 17^e eeuw.
 Anfang des
 17. Jahrhunderts.
 Beginning of the
 17th Century.
 Début 17^e siècle.



Een Veerschuyt van Amsterdam op Haarlem
*Wanneer ik door een eynde staal
 Met varen bin ik lang en jaal*

Fig. 178.



Twee Steyger Schuyten.

Fig. 179.

WATERSCHIP.



Water-schip met twee voor- en achterkanten behoren.

Fig. 180.

WATERBOAT.

SEËKAMEËL.

Begin 17^e eeuw.
Beginning of the 17th century.



Een Buyeklooter Vees ofte Steygerschuyt

Een Steyger Schuyt in plaats voor wind
Daer toe een roer is gesnide

Anfang des 17 Jahrhunderts
Début du 17^e siècle.

Fig. 181.



Een Waterschip voor J. Soutketen.

Een Brouwers Water-schuyt.

Fig. 182.

STEYGERSCHUITEN.



KAAG.

Hoy.



KAAG.

CAGUE.

Fig. 183



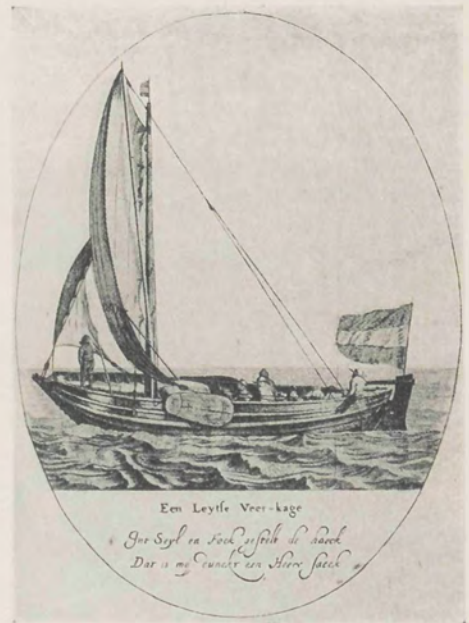
Een Speel-yacht

*Een ouder en nieuw hief vromer
Die dus al vromer vromer*

Eendekst

Fig. 184.

ZEILJACHT,
SEGELYACHT. — SAILING YACHT,
YACHT A VOILES.

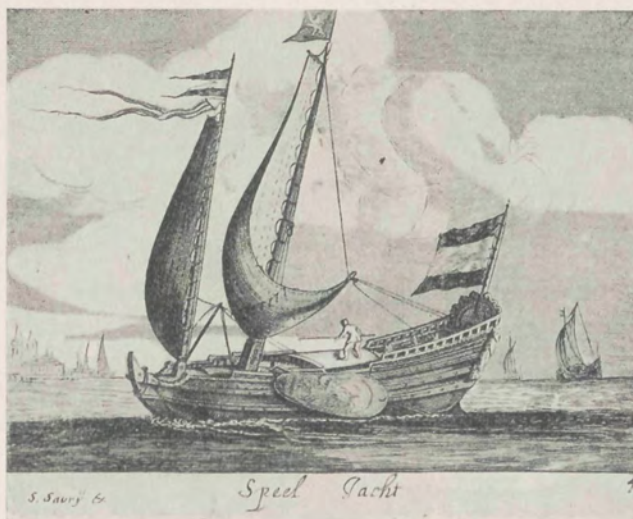


Een Leyse Veer-kage

*Een Leyse veer-kage
Die dus al vromer vromer*

Fig. 185.

Hoy. — KAAG. — CAGUE.



Speel Yacht

S. Saury & Co

Fig 186

ZEILJACHT.
SEGELYACHT.

SAILING YACHT,
YACHT A VOILES.



Een Dogh-boat groot omkrant 8 Last

Fig. 187.
DOGHBOOT.

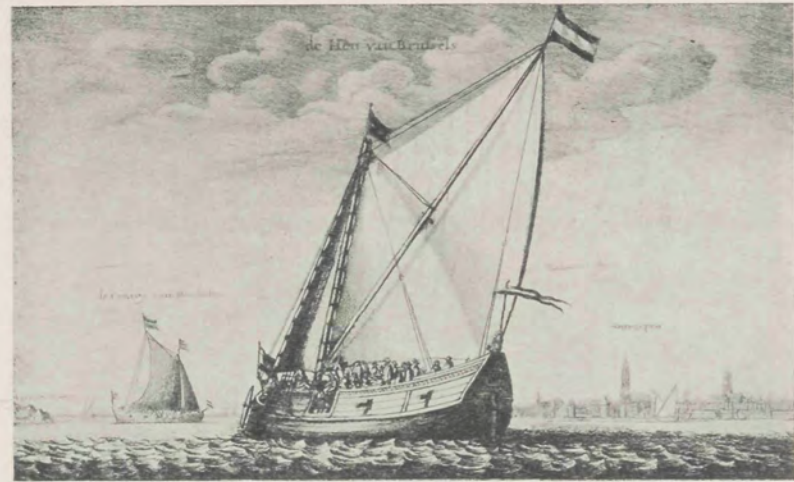


Fig. 188.
HEUDE (HEU).



Een Heude af de Heu van Breda met verkrant 10 Last

Fig. 189
HEUDE (HEU).



Een Zeeuwsche Kogge groot omkrant 10 Last

ZEEUWSCHE KOGGE.
ZELAND COG.

Fig. 190.
ZEELÄNDISCHE KOGGE.
COGUE ZÉLANDAISE.



Fig. 191.



Fig. 192.

BUJER.

BOIERS.

TENDERS.

BOYERS.

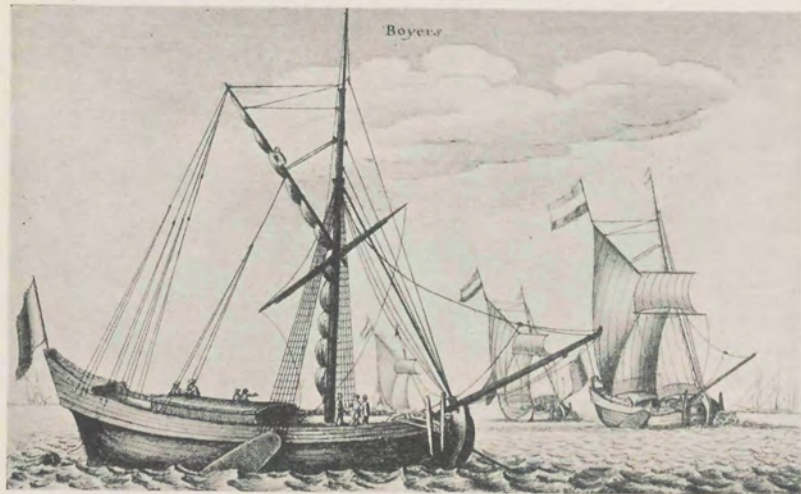


Fig. 193.



Fig. 194.



Fig. 195.

HARINGVLOOT OP ZEE.
HÄRINGSFLOTTE AUF SEE. HERRING-FLEET ON THE OPEN SEA.
FLOTTE POUR LA PÊCHE DU HARENG EN PLEINE MER.



Fig. 196.

BUYS DER ZUIDERZEE.
BÜSE DES ZUIDERZEE. BUSS FROM THE ZUYDER-ZEE.
BUSE DU ZUIDERZEE.

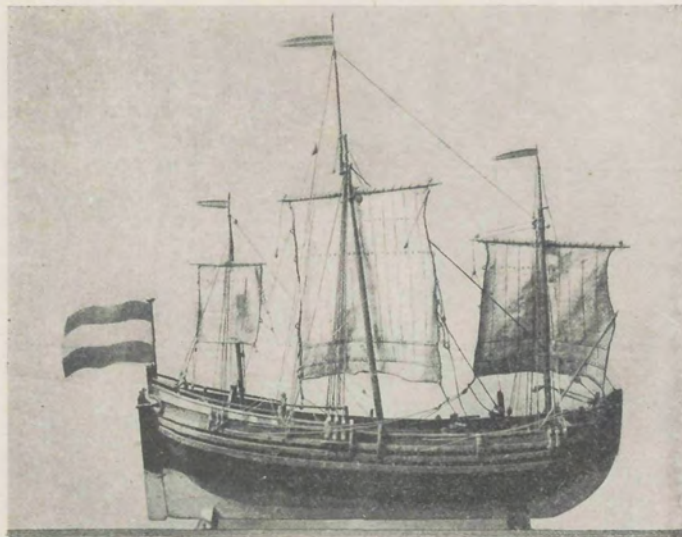


Fig. 197.

BUYS. BÜSE. BUSS. BUSE.



Fig. 198.

HARINGVLOOT IN ZEE.
HÄRINGSFLOTTE AUF SEE. HERRING FLEET ON THE OPEN SEA.
FLOTTE POUR LA PÊCHE DU HARENG EN PLEINE MER.



Een IJere Varen. Een Waterschip of Zuwerzese Vissers.

Fig. 199.

WATERSCHIP.
SEEKAMEEL. — WATERBOAT.



Tocht Schuyten of Sparendammer Vissers.

Fig. 200.

TOCHTSCHUIT. — TRECKSCHUTE.



Overijsselsche Potten groot ontrent 30 Last

Fig. 201.

OVERYSSELSCHÉ POT.
TOP AUS OVERYSSEL. — POT FROM OVERYSSEL.
POT DE L'OVERYSSEL.



DE WALVISCHVANGST.

Fig. 202.

WALVISCHVAARDER.
WALFISCHFÄNGER. — WHALE BOAT.
BALEINIÈRE.

LIJKBAREN VAN WORKUM, WAAROP DE SCHEPEN DER ZUIDERZEE ZIJN AFGEBEELD (1600).
SÄNFTEN VON WORKUM, AUF DENEN DIE SCHIFFE DER ZUIDERZEE DARGESTELLT SIND (1600).

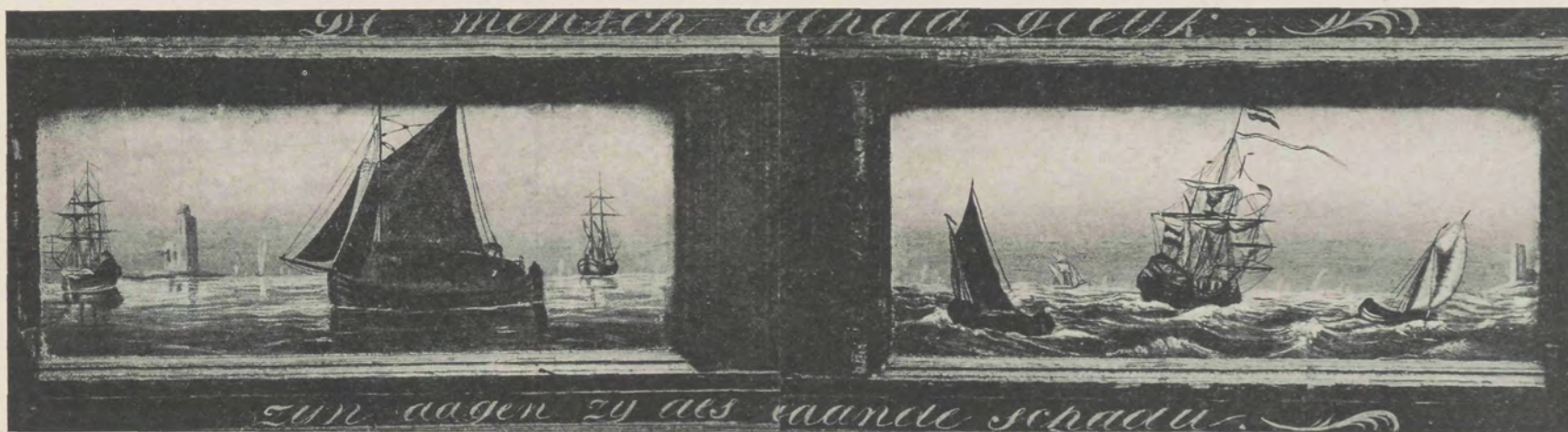


Fig. 202.



BIERS AT WORKUM, ON WHICH ARE SHOWN VESSELS OF THE ZUIDER-ZEE (1600).
CIVIÈRES A WORKUM, SUR LESQUELLES ON A REPRÉSENTÉ LES NAVIRES DU ZUIDERZEE (1600).



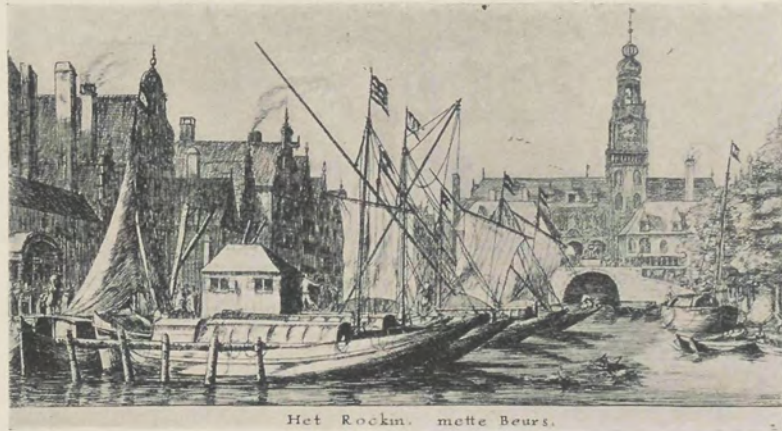
Fig. 203.



Fig. 203.



A° 1600.



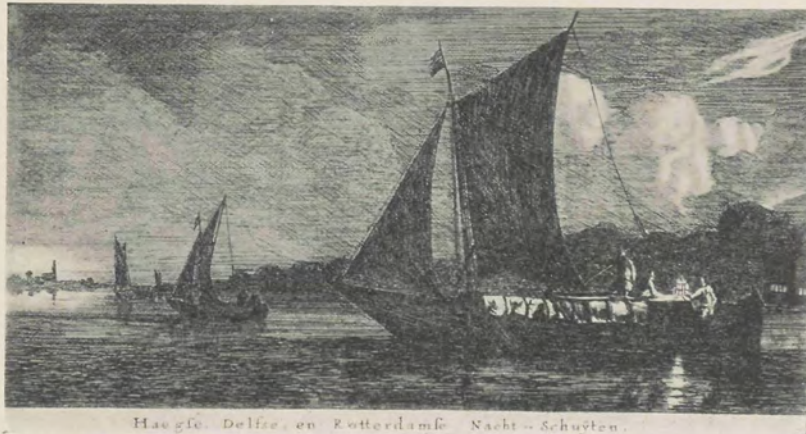
Het Rockin. mette Beurs.

Fig. 204.



Haerlemse Jaegschuytes.

Fig. 205.



Haegse, Delfse, en Rotterdamse Nacht-Schuyten.

Fig. 206.

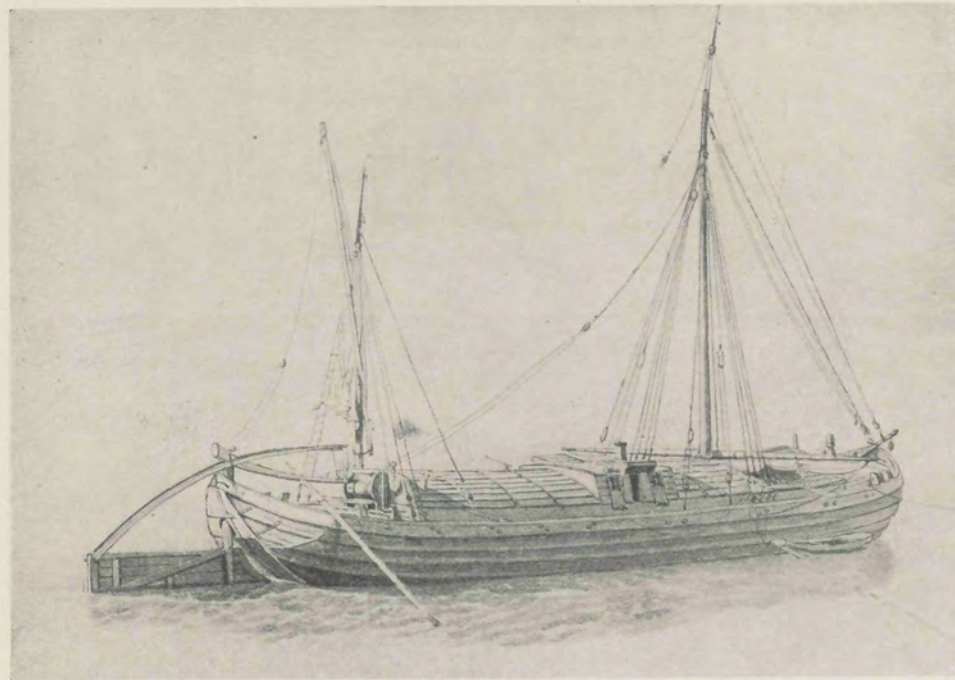


Den Ouertoom.

Fig. 207.

OUDE HERNA.
(Verzameling M' Van Gijn, Dordrecht.)

OLD HERNA.
(Collection of Mr. Van Gijn, Dordrecht.)



ALTE HERNA.
(Sammlung des Herrn Van Gijn,
Dordrecht.)

ANCIEN HERNA.
(Collection de M. Van Gijn, Dordrecht.)

Fig. 208.



Fig. 209.

TURFSCHIP. TORFSCHIFF. TURF BOAT. BATEAU TOURBIER.

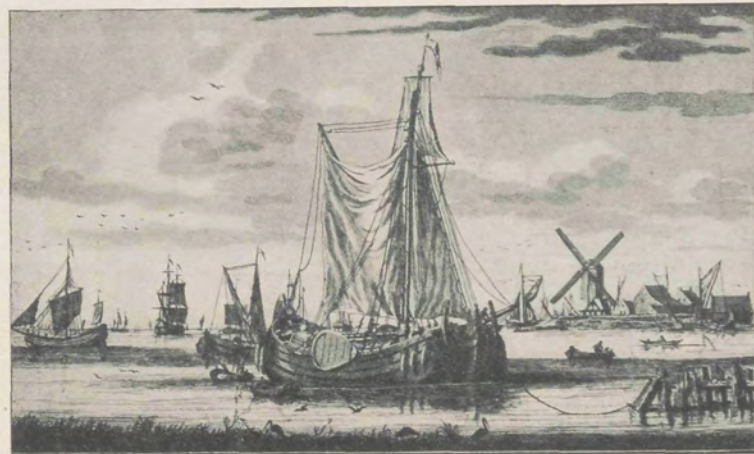
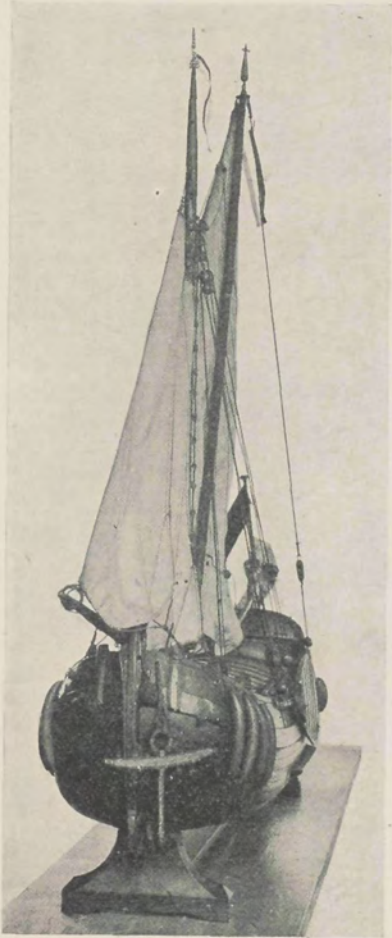


Fig. 210.

SMALSCHIP.



« BEURTSCHIFF ».
(Altertumsmuseum in Dordrecht)

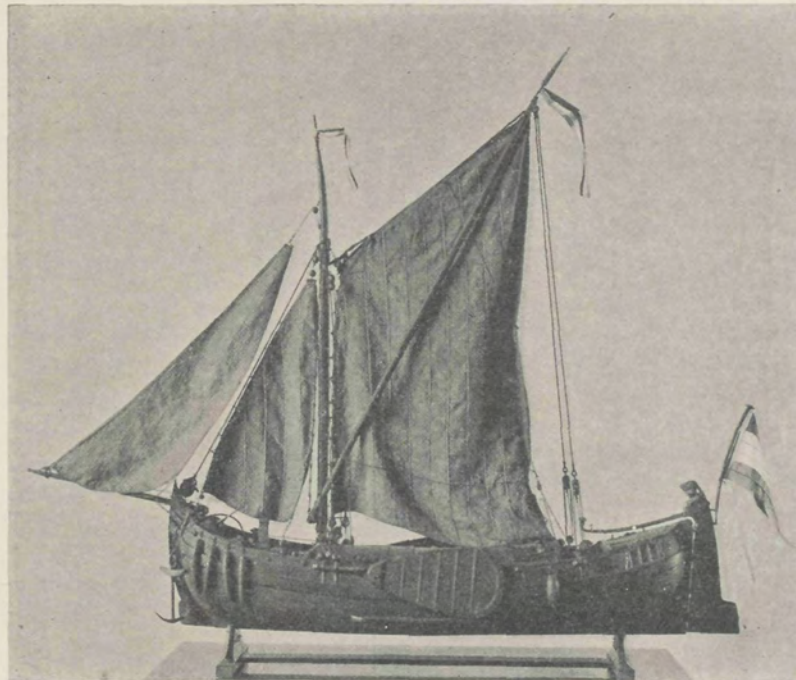


Fig. 211.

BEURTSCHIP.
(Museum van oudheden te Dordrecht.)
(Paviljoen Poon.)

« BEURTSCHIP ».
(Museum of antiquities at Dordrecht)



« BEURTSCHIP ».
(Musée d'antiquités de Dordrecht.)



Fig. 212.
DAMLOOPER.

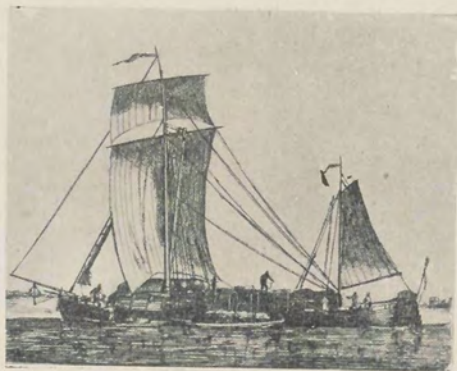


Fig. 213.
EEN SAMMOREUS OF KEULENAAR.
UN « SAMOREUS » OU « KEULENAAR ».



Fig. 215.
SMAK.
SCHMACK.
SEMAQUE.
SMACK.



Fig. 217.
KAT.
CHAT.

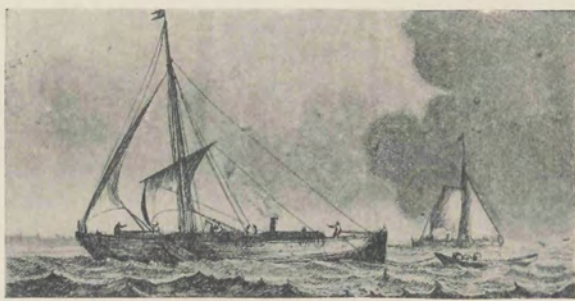


Fig. 214.
EEN SAMMOREUS OF KEULENAAR.
UN « SAMOREUS » OU « KEULENAAR ».



Fig. 218.
KOF.
KOFF.



Fig. 219.
SCHOLSCHUIT.
SCHUTE ZUM SCHOLLENFANG.
BOAT FOR SOLE FISHERY.
BARQUE POUR LA PÊCHE DE LA SOLE.



Fig. 216.
SMAK.
SCHMACK.
SEMAQUE.
SMACK.



Fig. 220.

SCHOLSCHUIT.
 SCHUTÉ ZUM SCHOLLENFANG. BOAT FOR SOLE FISHERY.
 BARQUE POUR LA PÊCHE DE LA SOLE.



Fig. 221.

KOOPVAARDYBUS.
 KAUFFAHRTEI-BÜSE. MERCHANT BUSS.
 BUSE MARCHANDE.



Fig. 225.

DRIEMAST GALJOOT.
 GALIOT MIT DREI MASTEN.
 THREE MASTED GALLIOT.
 GALIOTE A TROIS MATS.



Fig. 222.

BUYSCONVOYER.
 GELEITSCHIFF FÜR BÜSEN.
 CONVOY-SHIP FOR BUSESSES.
 CONVOYEUR DE BUSES.

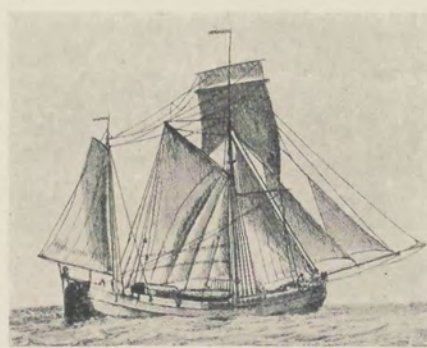


Fig. 226.

EENMAST GALJOOT.
 GALIOT MIT EINEM MAST.
 SINGLE MASTED GALLIOT.
 GALIOTE A UN MAT.



Fig. 223.

BUYS (ENKHUIZEN) DE VLEET INHALENDE.
 BUSE VON ENKHUIZEN DIE NETZE EINZIEHEND.
 ENKHUIZEN BUSS TAKING IN NETS.
 BUSE D'ENKHUIZEN RENTRANT SES FILETS.



Fig. 224.

BUYS (VLAARDINGEN) DE VLEET UITSCHIETENDE.
 BÜSE VON VLAARDINGEN DIE NETZE AUSLEGEND.
 VLAARDINGEN BUSS CASTING NETS.
 BUSE DE VLAARDINGEN LANÇANT SES FILETS.



Fig. 227.

HOEKER MET BARKENTIJNSTUIG.
 HUKER MIT BERKENTAKELUNG. BARK RIGGED HOWKER.
 HOURQUE AVEC GRÉEMENT DE BARQUE.



Fig. 228.

HOEKER.
 HUKER. HOWKER.
 HOURQUE.



Fig. 231.

BUYS.
 BÜSE. BUSS. BUSE.



Fig. 232.

JAGER.
 JAGER. CHASER. CHASSEUR.



Fig. 229.

VISCHHOEKER.
 FISCHHUKER. FISHING HOWKER.
 HOURQUE DE PÊCHE.



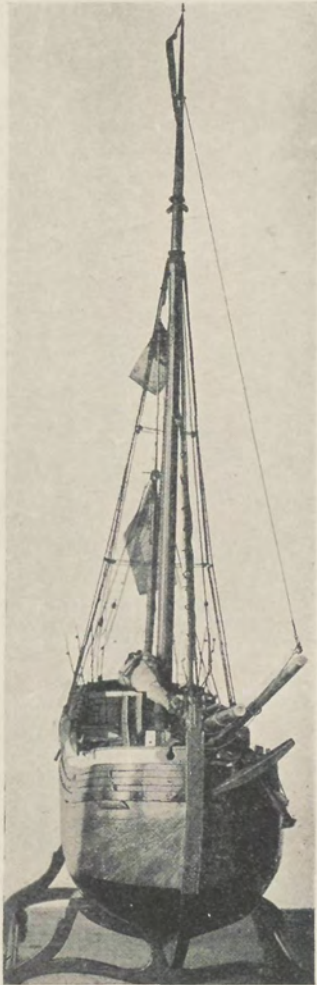
Fig. 230.

DRIEMAST HOEKER.
 HUKER MIT 3 MASTEN. THREE MASTED HOWKER.
 HOURQUE A 3 MATS.



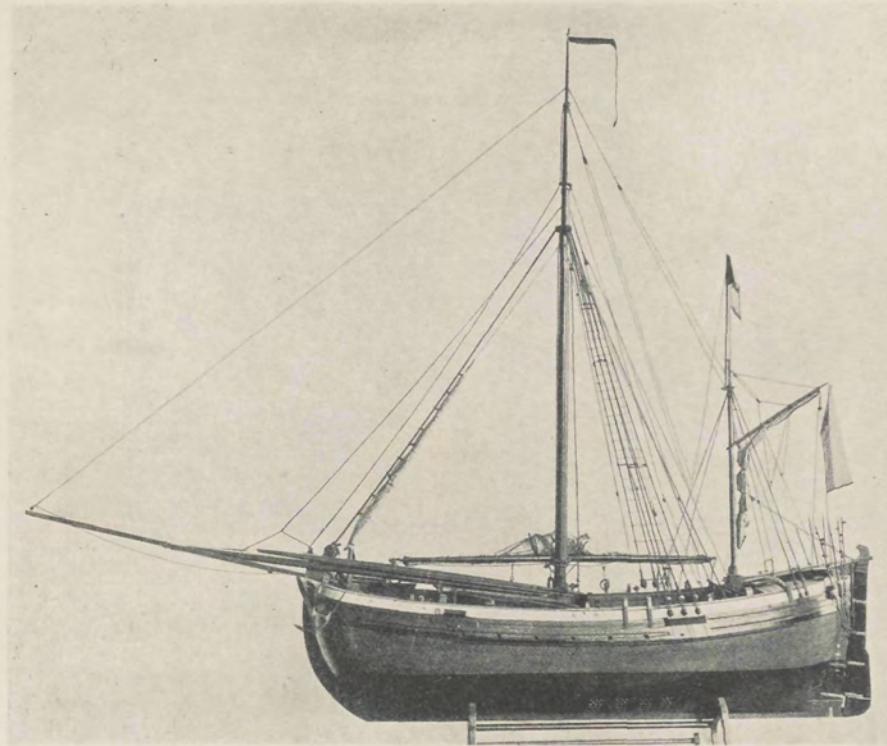
Fig. 233.

PINKSCHIP.



MODELL EINES HUKERS.
(Sammlung des Herrn van Gijn, Dordrecht.)

Fig. 234.



MODEL VAN EEN HOEKER.
(Verzameling van M^r van Gijn, Dordrecht.)

MODEL OF A HOWKER.
(Collection of M. van Gijn, Dordrecht.)



MODELE D'UNE HOURQUE.
(Collect on de M. van Gijn, Dordrecht.)

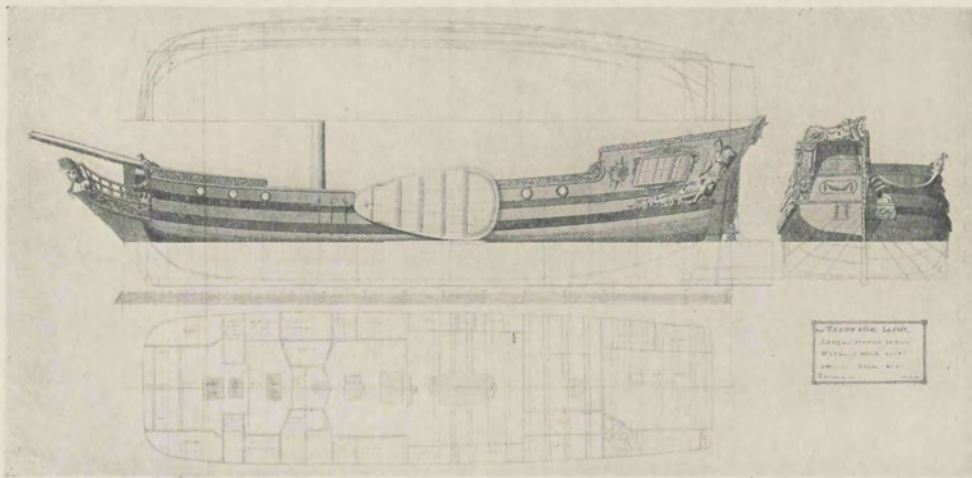


Fig. 235.

ZEEUWSCH YACHT. ZEELÄNDISCHE YACHT. ZELAND YACHT. YACHT ZÉLANDAIS.

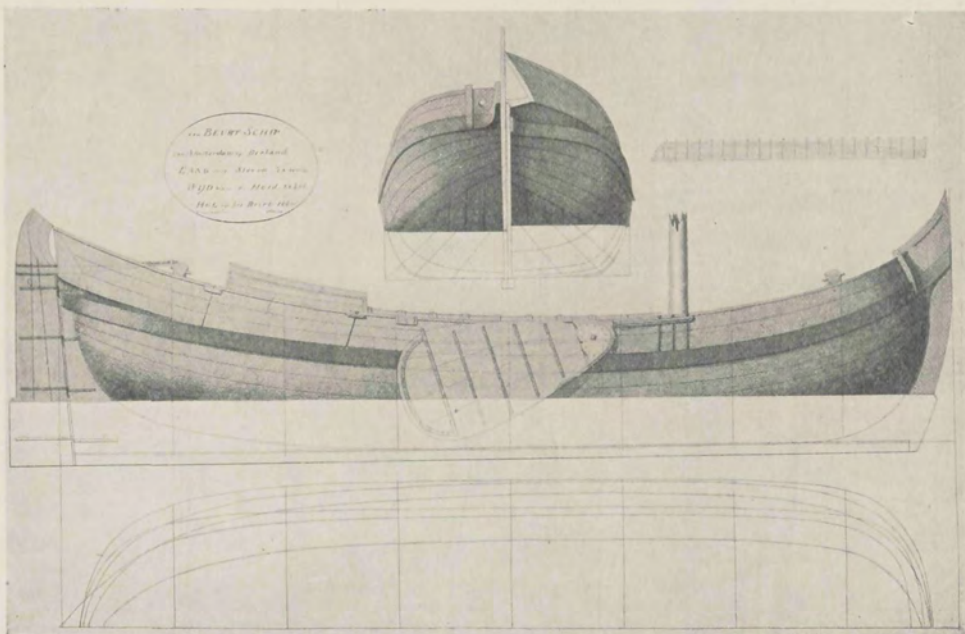


Fig. 236.

BEURTSCHIP. (POON)

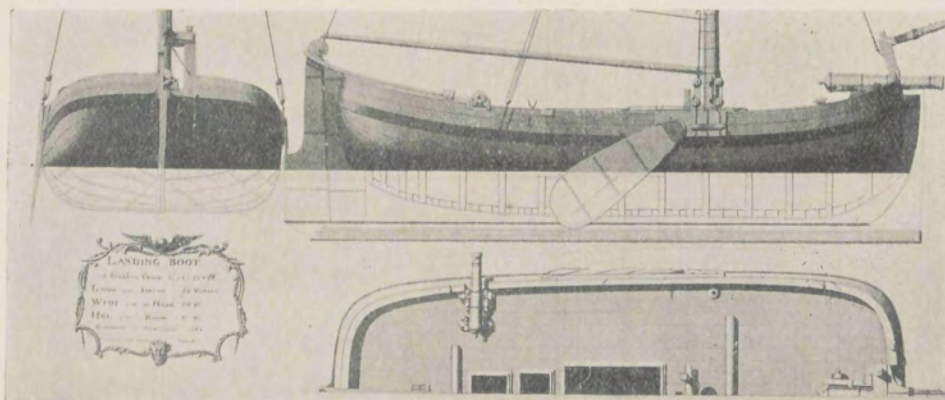


Fig. 237.

LANDING BOAT. LANDUNGSBOOT. LANDING BOAT. BATEAU DE DÉBARQUEMENT.

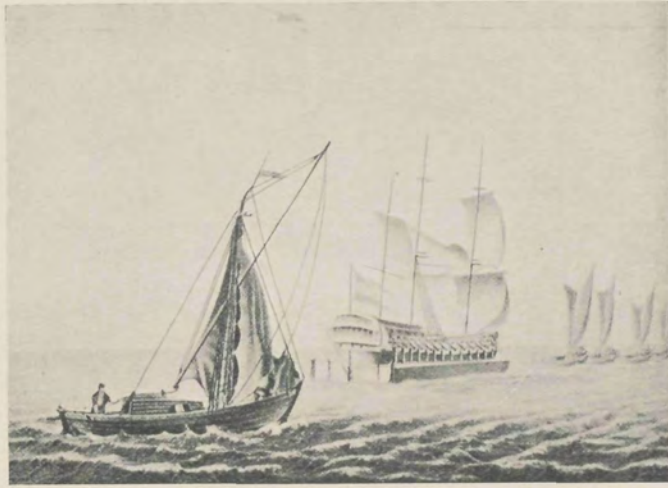


Fig. 238.

SEESCHIP MET ZEEKAMEEL DOOR WATERSCHEEPJES OVER HET PAMPUS GETROKKEN.
ZEESCHIFF VON WASSERSCHIFFEN (SEEKAMEELEN) ÜBER DEN PAMPUS GESCHLEPPT.
SEA-GOING SCHIP FLOATED OVER THE PAMPUS SHOAL ON « SEA CANNELS ».
BATIMENT DE MER PORTÉ PAR UN « ZEEKAMEEL » REMORQUÉ PAR DES
« WATERSCHEEPJES » AU-DESSUS DE PAMPUS.

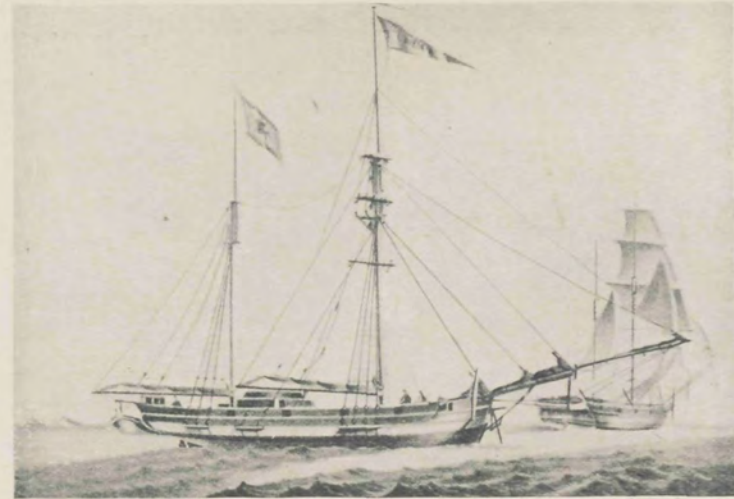


Fig. 239.

GALEAS.
GALEASSE. GALLIASS.
GALÉASSE.

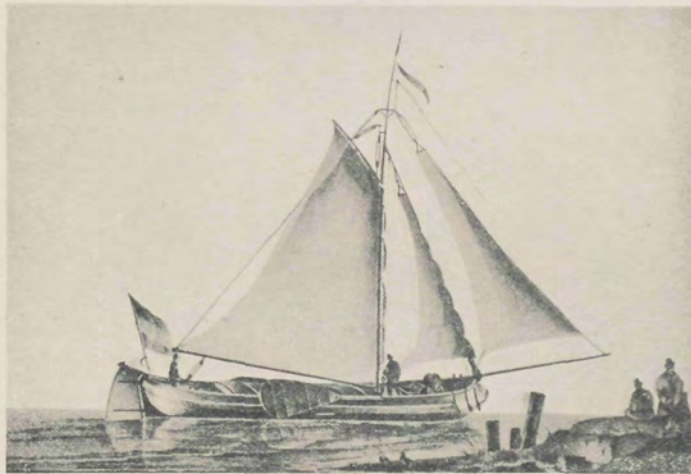


Fig. 240.

SNIK.



Fig. 241.

EVER.



Fig. 242.

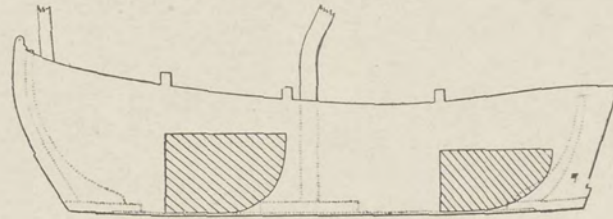


Fig. 243.

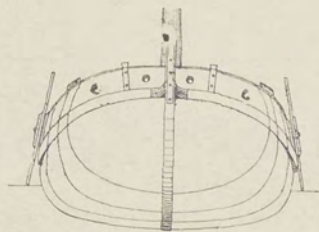
SCHUIT VAN BLANKENBERGHE.
SCHUTE VON BLANKENBERGHE. BLANKENBERG BOAT.
BARQUE DE BLANKENBERGHE.



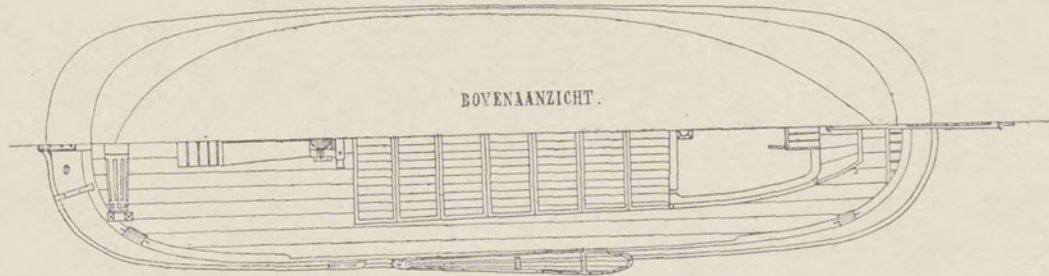
Fig. 244.



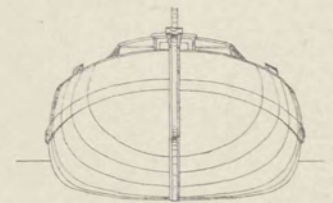
Fig. 245.
BLOKZIJLDER JACHT.



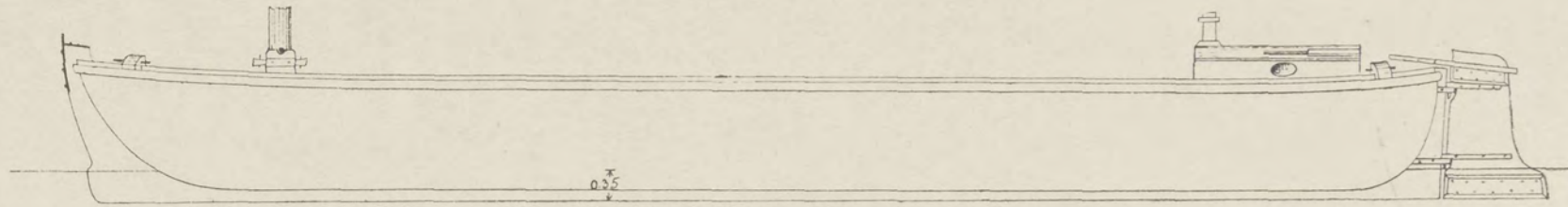
VOORAANZICHT
VORDERANSICHT FRONT VIEW
VUE D'AVANT



BOVENAANZICHT.
PLAN. AUFSICHT.



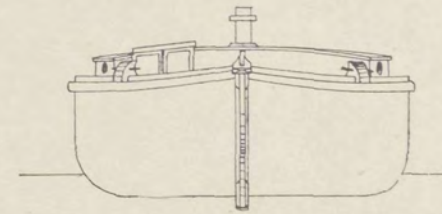
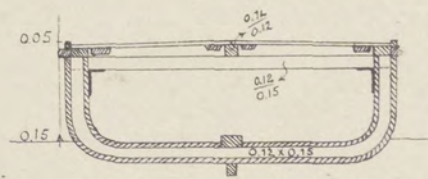
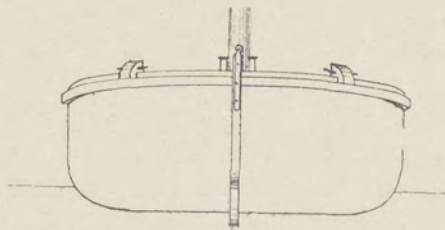
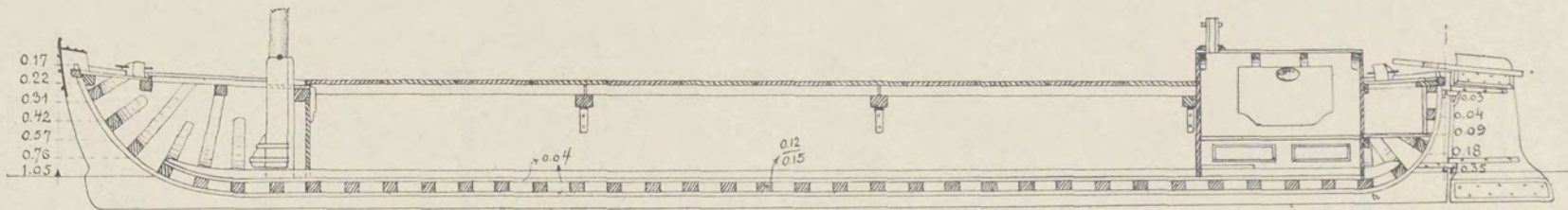
ACHTERAANZICHT
HINTERANSICHT STERN VIEW
VUE D'ARRIERE



SLIJKPRAAM. BAGGERPRAAM. (GRONINGEN) DREDGING BARGE. CHALAND DE DRAGAGE.



Fig. 46

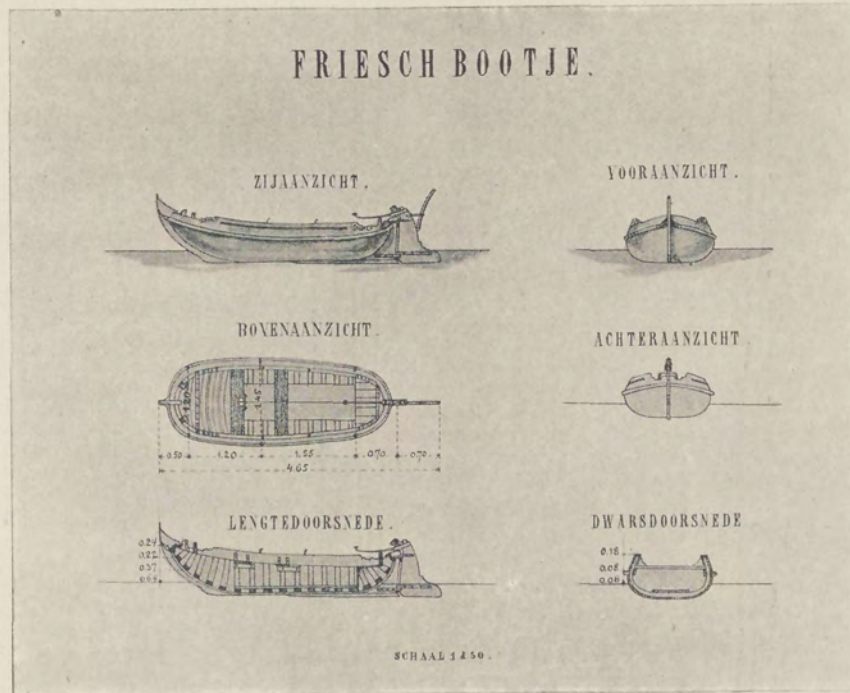


FRIESCH BOOTJE.
 FREESISCHES BOOT. SMALL FRISIAN BOAT.
 BARQUETTE FRISONNE.

Seitenansicht.
 Side view.
 Vue de côté.

Aufsicht.
 Plan.

Längsschnitt.
 Longitudinal section.
 Coupe longitudinale.



Vorderansicht.
 Front view.
 Vue de face.

Hinteransicht.
 Stern view.
 Vue postérieure.

Querschnitt.
 Cross-section.
 Coupe transversale.

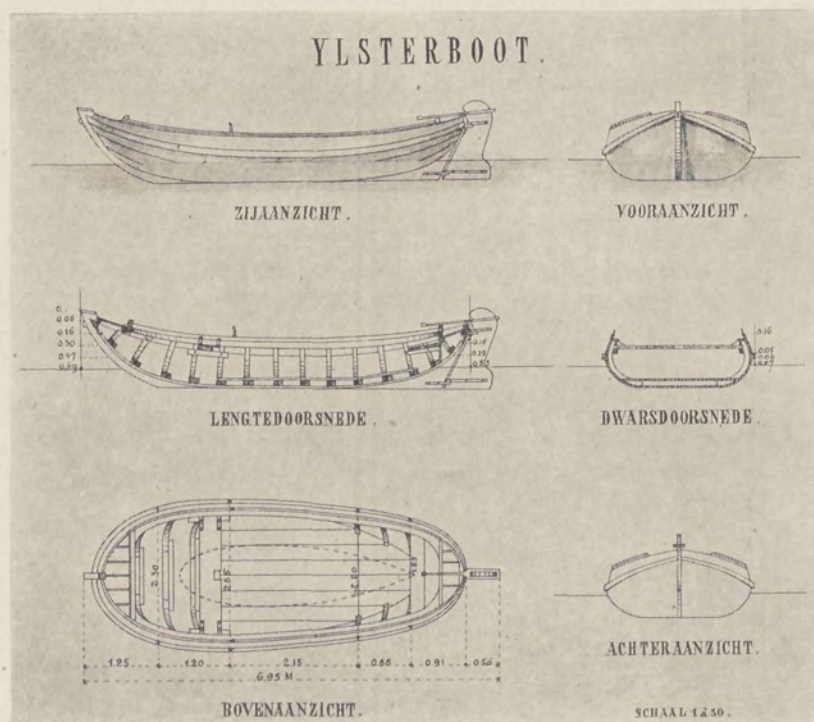
Fig. 247.

YLSTERBOOT.
 YLSTERBOOT. BOAT FROM THE YLSTER.
 BATEAU DE L'YLSTER.

Seitenansicht.
 Side view.
 Vue de côté.

Längsschnitt.
 Longitudinal section.
 Coupe longitudinale.

Aufsicht.
 Plan.



Vorderansicht.
 Front view.
 Vue de face.

Querschnitt.
 Cross-section.
 Coupe transversale.

Hinteransicht.
 Stern view.
 Vue postérieure.

Fig. 248.



Fig. 29.

YZEREN KLIPPER SCHIP.



Fig. 250.

HENGST.



Fig. 251.

YZEREN KLIPPER SCHIP.

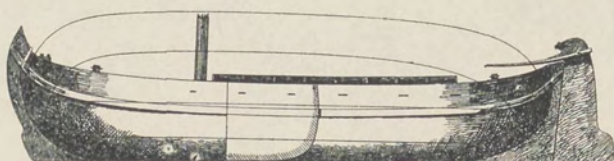


Fig. 252.

SCHUIT.



Fig. 253.

OTTER.



Fig. 254.

SCHUIT.



Fig. 255.

BOEIER.

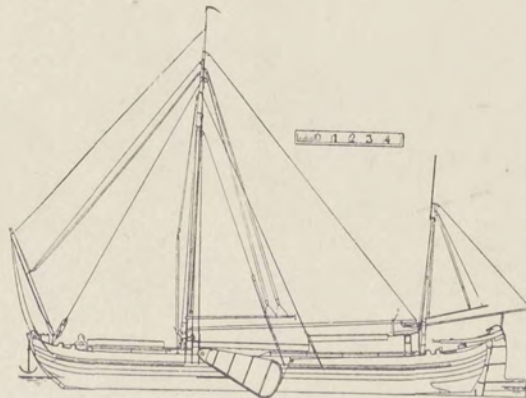


Fig. 256.

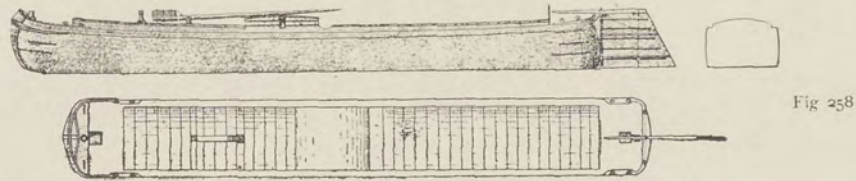
HOLLANDSCHE AAK.

BELGISCHE SCHEPEN.
BELGISCHE SCHIFFE. — BATEAUX BELGES. — BELGIAN CRAFT.

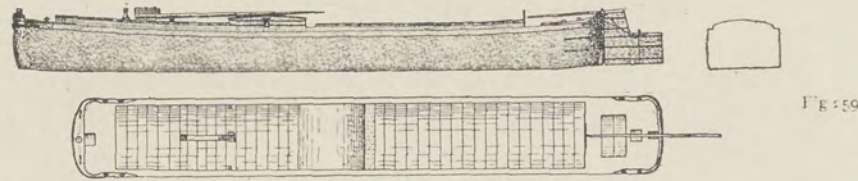
Prahm des Kanals von Charleroi. — Paquet du Canal de Charleroi. — Baquet from the Charleroi Canal.



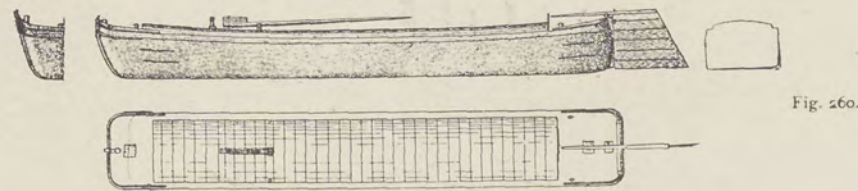
PINASSE VON TOURNAL. — PÉNICHE DE TOURNAL. — TOURNAI BARGE.



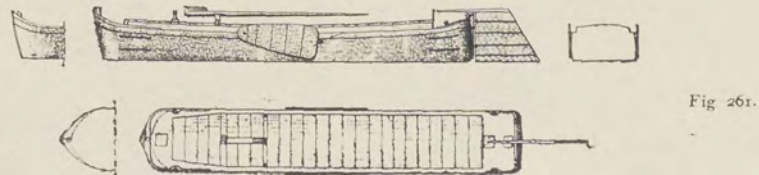
LEICHTER. — BARGE. — CHALAND.



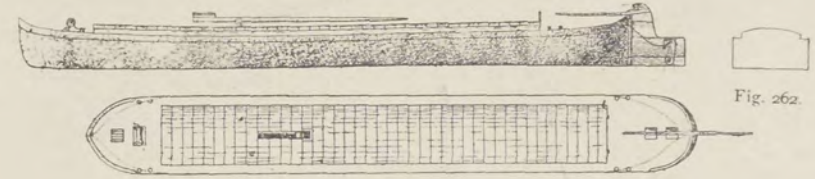
BILANDER. — BALINGER. — BÉLANDRE.



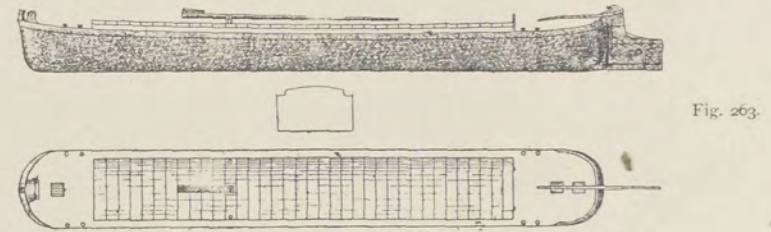
SPITS. — POINTED. — POINTU (SPITS).



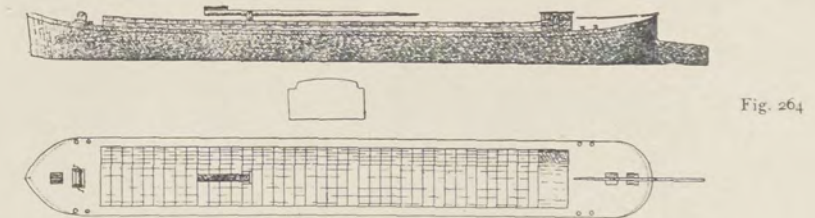
POINTU (SPITS).



TYPE MIT KUGELFORMIGEN RUMPF. — TYPE A CUL SPHÉRIQUE.

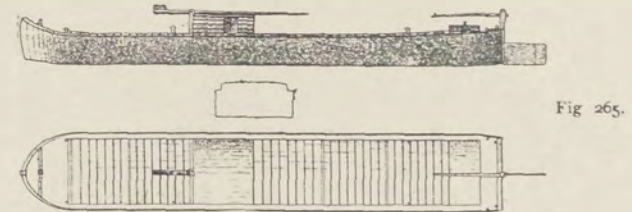


TYPE MIT ZYLINDRISCHEN RUMPF. — TYPE A CUL CYLINDRIQUE.



FRANZÖSISCHE SCHIFFE. — BATEAUX FRANÇAIS.
FRENCH VESSELS.

FLUTE. — FLIGHT.



Nach den Ingenieur A. Dehem. — According to Engineer A. Dehem.
D'après l'ingénieur A. Dehem.
Annales des Travaux publics de Belgique.
Tome VI, août 1901.

TYPE VAN DE SCHELDE.
TYP VON DER SCHELDE. — TYPE OF THE SCHELDI. — TYPE DE L'ESCAUT.



Fig. 266.

TYPE - DORTMUND-EMSKANAAL.

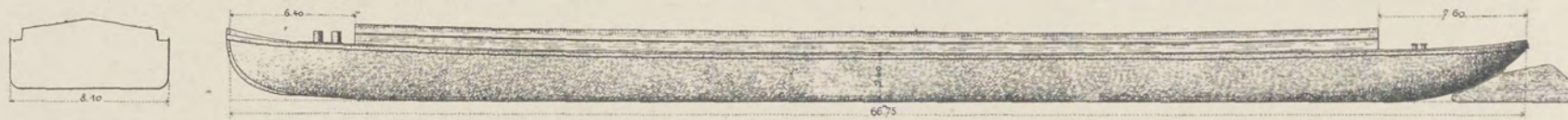
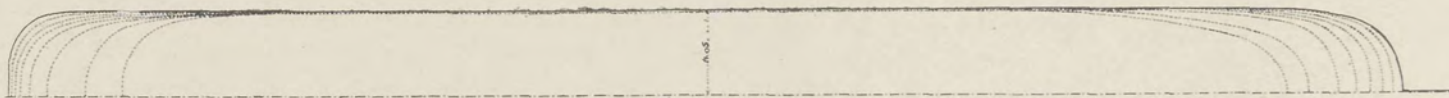
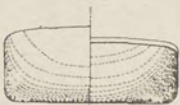


Fig. 267.



SCHIFFSTYPE VOM DORTMUND-EMS-KANAL. — TYPES OF BOATS ON THE DORTMUND-EMS-CANAL.
TYPES DE BATEAUX DU CANAL DE DORTMUND A L'EMS.

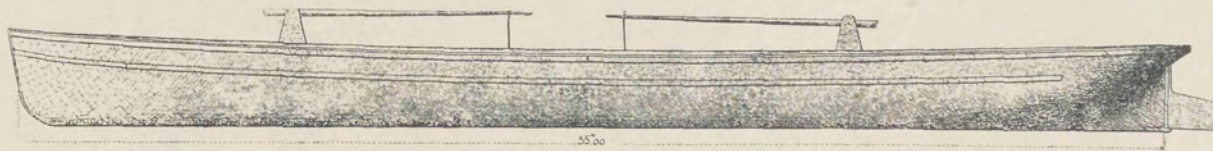
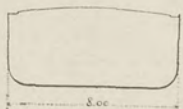


Fig. 268.





Fig. 269.

LOGGER MET WESTLANDER.
 LOGGER MIT WESTLÄNDER. LUGGER WITH WESTLANDER.
 LOUGRE AVEC WESTLANDER.

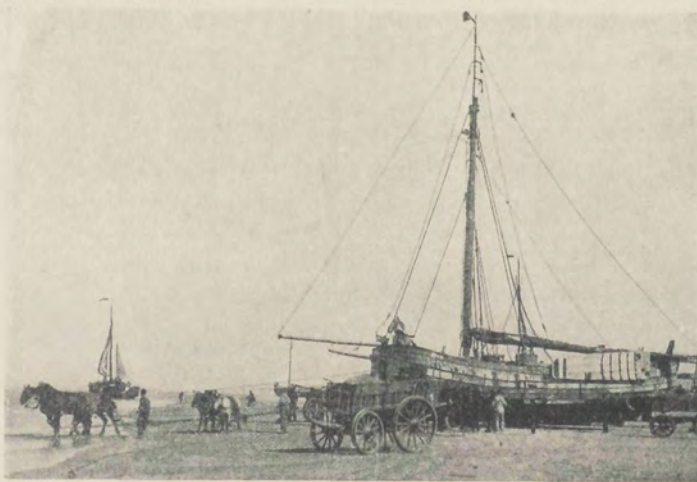


Fig. 270.

BOM. LOGGER. LOUGRE. BOM.
 (VLAARDINGEN.)

OP WELKE WIJZE EER-
 TIJDS DE SCHEVENINGS-
 SCHE BOMMEN IN ZEE WERDEN
 GEBRACHT.

WIE DIE BOMMEN VON
 SCHEVENINGEN FRÜHER
 ZU WASSER GEBRACHT
 WURDEN.



FORMER LAUNCHING OF
 « BOMMEN » AT SCHEVE-
 NING.

MISE EN MER DE JADIS
 DES « BOMMEN » DE SCHE-
 VENINGUE.

Fig. 271.



Fig. 272.

OUDE KOTTER.
 ALTER KUTTER. OLD-TIME CUTTER.
 ANCIEN CUTTER.



Fig. 273.

HOOGAARS.

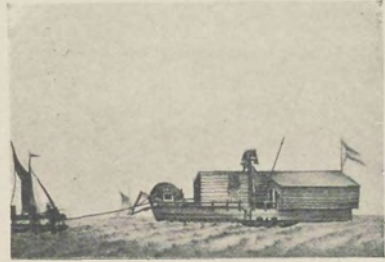


Fig. 274.

OUDE MODDERMOLEN.
ALTER KUTTER. OLD TIME DREDGE.
ANCIEN CURE-MÔLE.

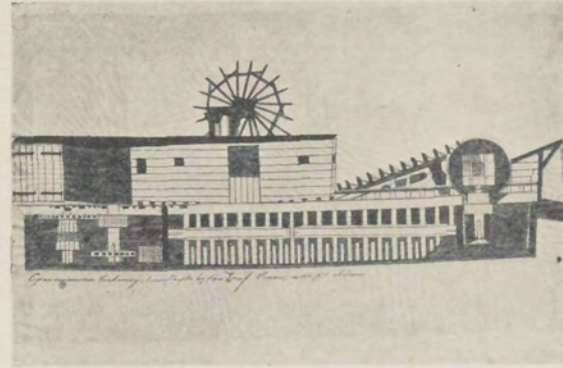


Fig. 275.

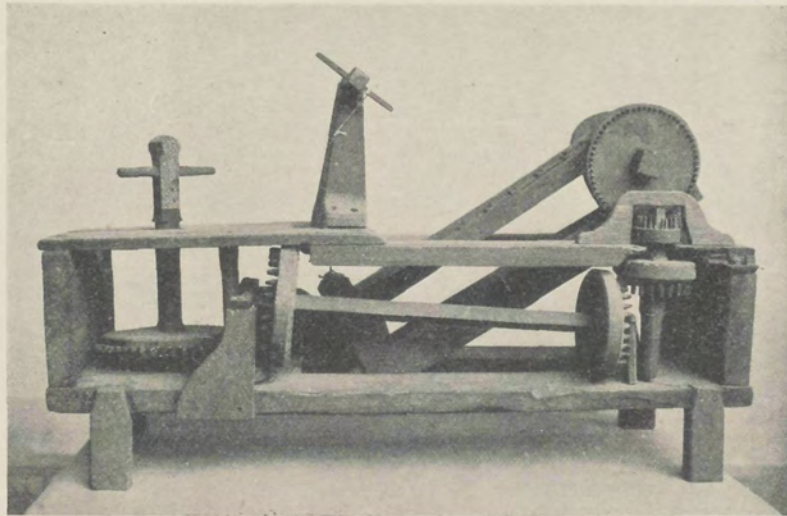


Fig. 276.

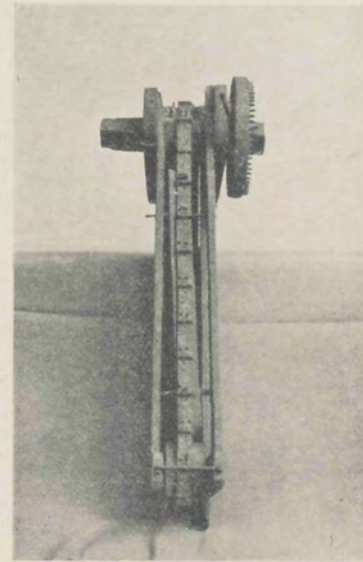


Fig. 277.

MODEL MODDERMOLEN (STADHUIS TE HOORN).
MODELL-KUTTER. HOORN. MODEL OF A DREDGE.
MODÈLE D'UN CURE-MÔLE (HÔTEL DE VILLE DE HOORN).



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