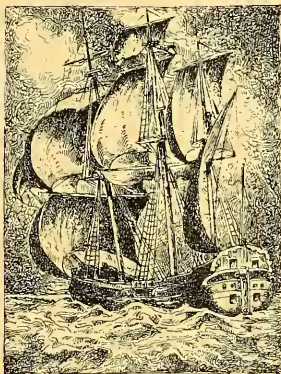




SHIPBUILDING
FROM
ITS BEGINNINGS



SHIPBUILDING FROM ITS BEGINNINGS

BY

E. VAN KONIJNENBURG, C. E.,

ENGINEER OF THE RIJKSWATERSTAAT OF THE NETHERLANDS

1895 - 1905

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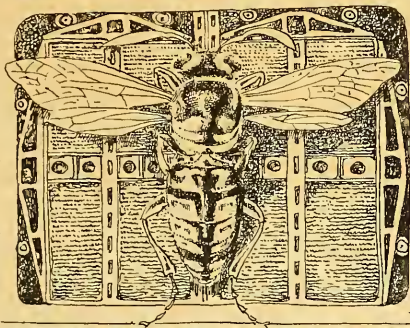
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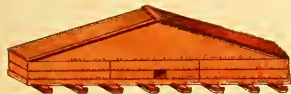


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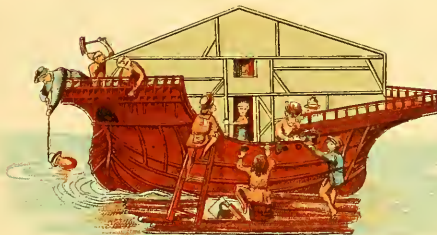
ARK VAN NOACH. ARCHE. NOAH.
NOAH'S ARK. ARCHE DE NOË.



Voorstelling van Liranus (Van Yk).
Nach Liranus. — According to Liranus.
D'après Liranus (Van Yk).



Tekening (xvii^e eeuw)
Zeichnung (17. Jahrhundert). — Drawing of the 7th century
Dessin du xvii^e siècle.



Neurenberger Kronick
Nürnberg Chronik. — Chronicle of Nuremberg.
Chronique de Nuremberg.
Fig. 1.



Volgens Wilhelm Goeree
Nach Wilhelm Goeree. — According to Wilhelm Goeree.
D'après Guillaume Goeree.



Volgens Van Yk.
Nach Van Yk. — According to Van Yk.
D'après Van Yk.

VIKINGER SCHIP. VIKING SCHIP.
WIKINGERSCHIFF. BATEAU DES VIKINGS.

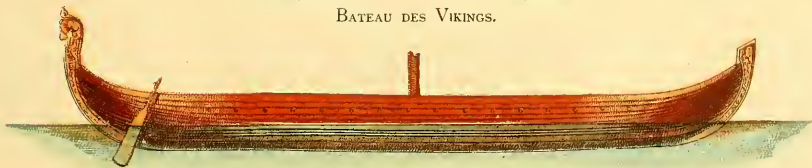
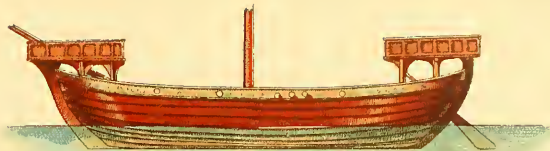


Fig. 2.



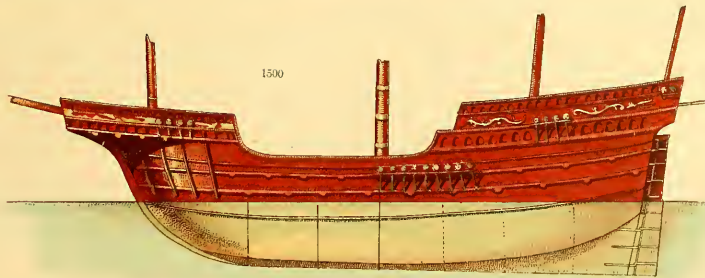
1200
Fig. 3



1300
Fig. 4

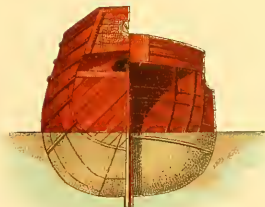


1400 Fig. 5



1500

Fig. 6



Amsterdamer Fusz

Amsterdamsche voeten



Amsterdam feet

Pieds d'Amsterdam

PINASSCHIP

PINASSE

1625

Amsterd. voeten



PINNACE

PINASSE



Fig. 8

PINASSCHIP
PINASSE 1678 PINNACE
PINASSE

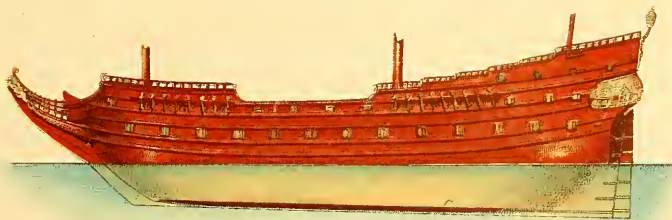
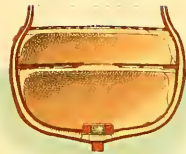
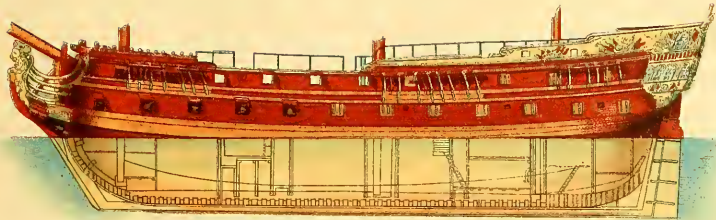


Fig. 9

SCHIP VAN OORLOG — 50 KANONNEN
1757



KRIEGSSCHIFF
50 KANONEN

MAN OF WAR
50 GUNS

NAVIRE DE GUERRE
50 CANONS



Amsterdamsche voeten

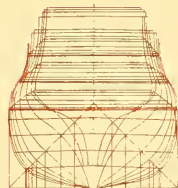
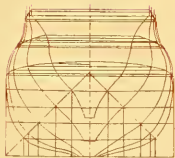
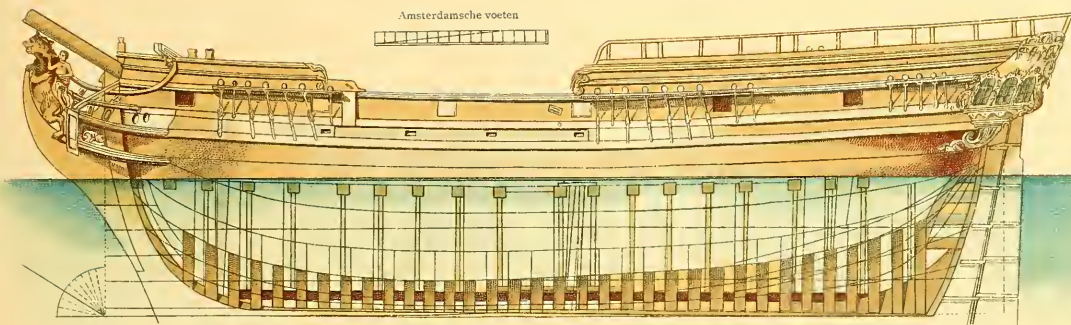


Fig 10



OOST-INDISCH
COMPAGNIE SCHIP

SCHIFF DER OSTINDISCHEN
KOMPAGNIE

1750

EAST INDIA
COMPANY'S SHIP

NAVIRE DE LA COMPAGNIE
DES INDES

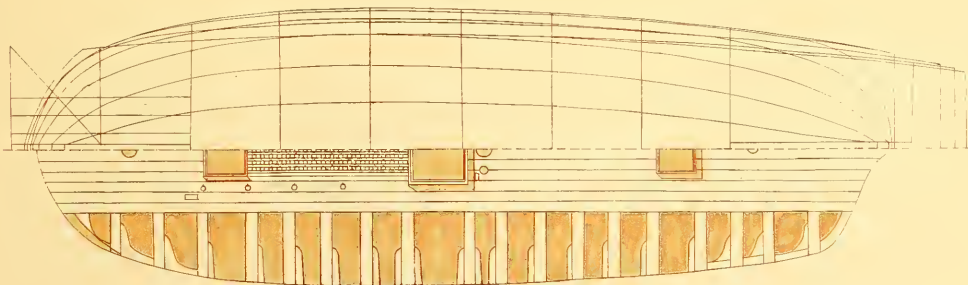


Fig. 11

O. I. COMPAGNIE SCHIP
 SCHIFF DER OSTINDISCHEN KOMPAGNIE 1750 EAST INDIA COMPANY'S SHIP
 NAVIRE DE LA COMPAGNIE DES INDES

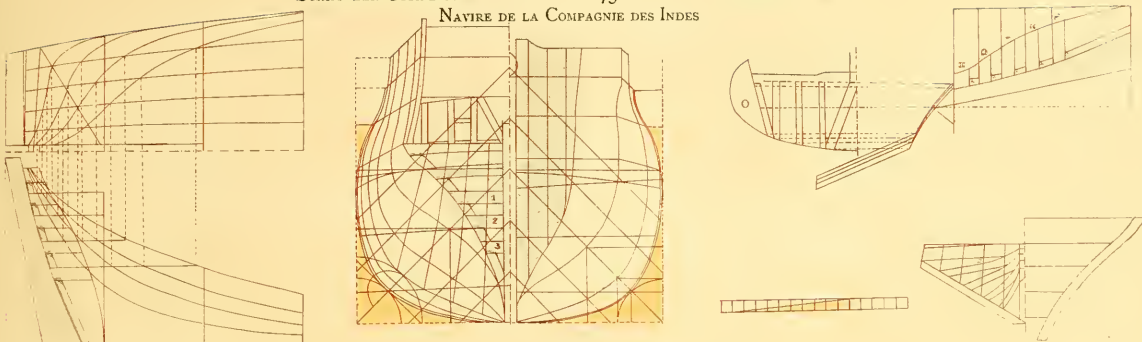
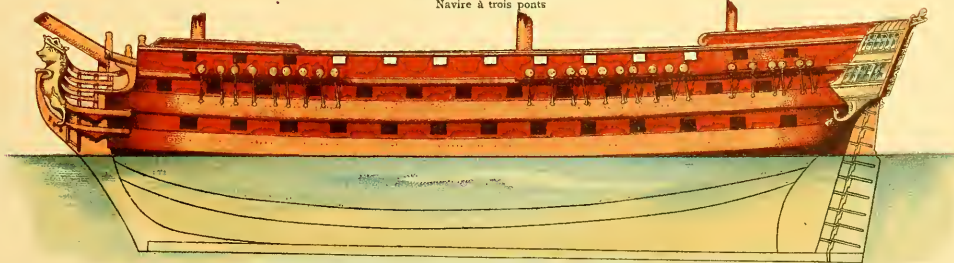


Fig. 11

SCHIP Amsterdamse voeten VAN OORLOG
 KRIEGSSCHIFF MAN OF WAR
 NAVIRE DE GUERRE



Driedekker
 Dreidecker Three decker
 Navire à trois ponts



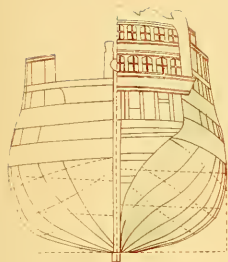
1770

SCHIP VAN OORLOG

KRIEGSSCHIFF

MAN OF WAR

NAVIRE DE GUERRE



Driedekker
Dreidecker
Navire à trois ponts

Three decker

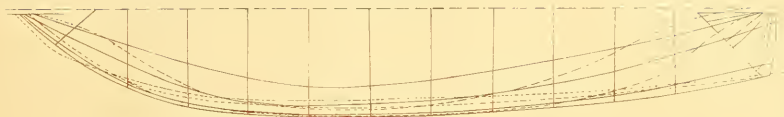


Fig. 12

VERSCHIL
IN GROOTSPANTEN

UNTERSCHIEDE IN
DEN HAUPTSPANTEN

DIFFERENCES AT THE
MAIN FRAME

DIFFÉRENCES AU
MAÎTRE-COUPLE

Frankrijk-Frankreich

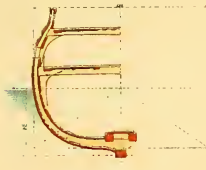
Holland-Hollande

Engeland-England

Denemarken-Dänemark

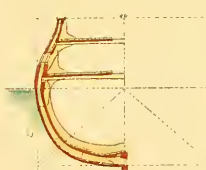


France

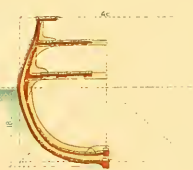


0 8 10 15 20

Amsterdamsche voeten



Angleterre

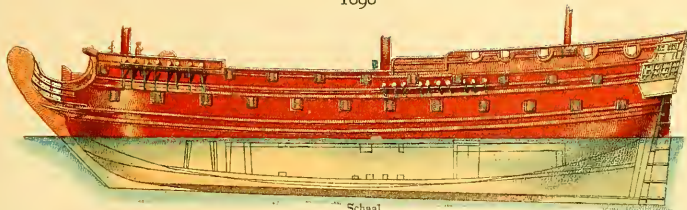


Denmark-Danemark

1750

Fig. 13

1690



Schaal
Maasstab 1 : 300 Scale
Echelle

SCHIP VAN OORLOG
ENGELAND
NAVIRE DE GUERRE
ANGLETERRE

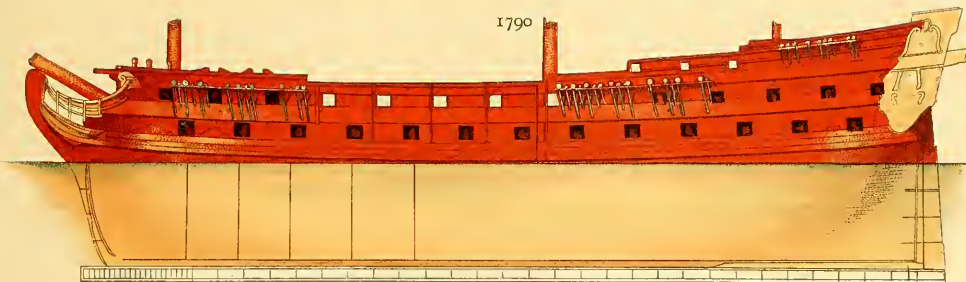


KRIEGSSCHIFF
ENGLAND

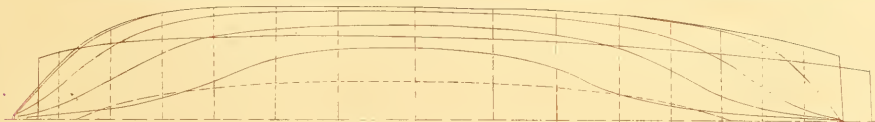
MAN OF WAR

Fig. 14

1790



SCHIP VAN OORLOG NAVIRE DE GUERRE KRIEGSSCHIFF MAN OF WAR

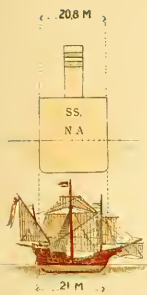


Frankrijk France Frankreich

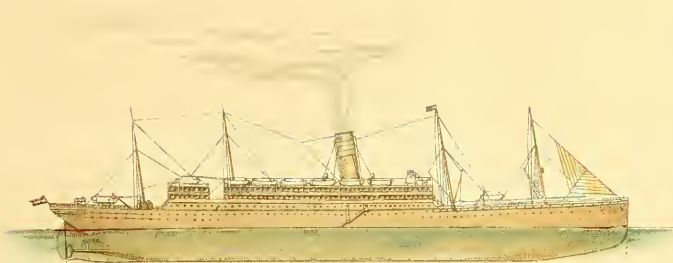


Fig. 15

1905



1500



SS.: Nieuw Amsterdam

133 M

PAQUEBOT « NIEUW AMSTERDAM » POSTSCHIFF

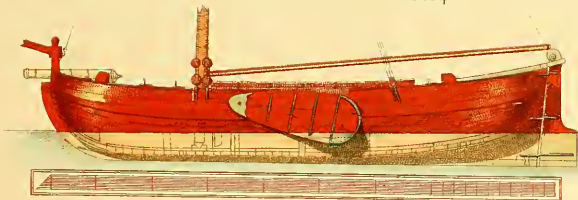
Fig. 16



40 m

1750

1814



Amsterdamsche voeten

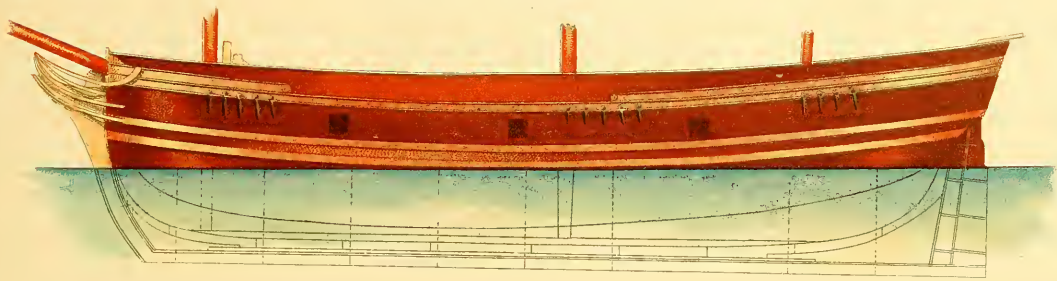


KUSTBEWAARDER MET 12 PONDER
 KÜSTENWACHTSCHIFF COAST GUARD
 MIT 12 KANONEN CARRYING 12 PDRS
 GARDE-COTE AVEC PIÈCES DE 12

Fig. 17

FREGATTE FREGAT FRIGATE
FRÉGATE

Schaal
Massstab 1 : 175 Scale
Echelle

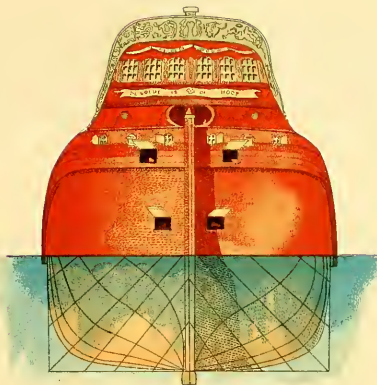


KOOPVARDIJSCHIP
KAUFFAHRTSCHIFF 1800 MERCHANT SHIP
NAVIRE MARCHAND

Fig. 18

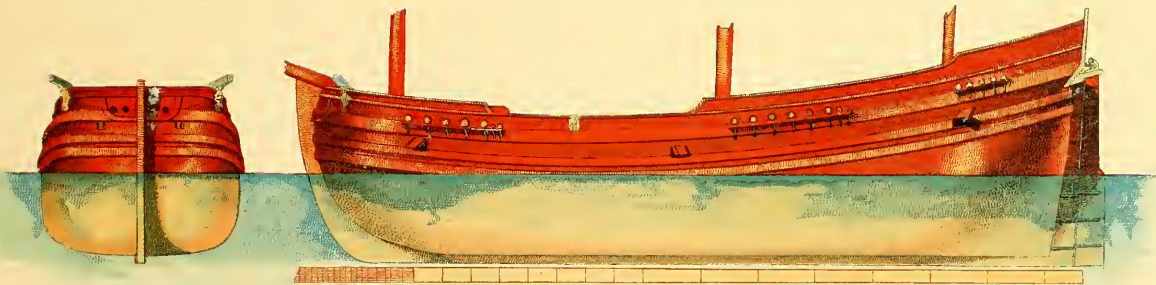
Fig. 19

Achterschip
Schiffshintertheil — Stern
Poupe

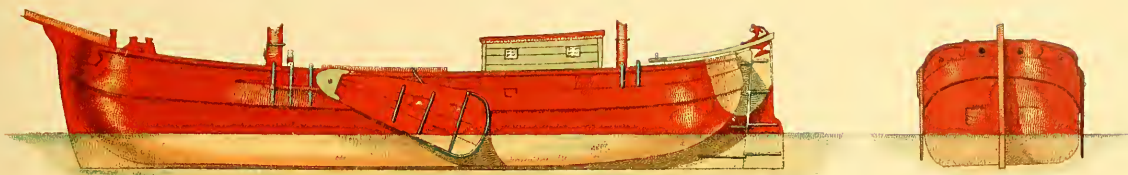


Voorship
Schiffsvorderteil — Bow
Proue

FLUT 1803 FLÖTE
FLUTE FLÖTE



Amsterd. voeten



GALJOOT — GALLIOT — GALIOT — GALIOTE

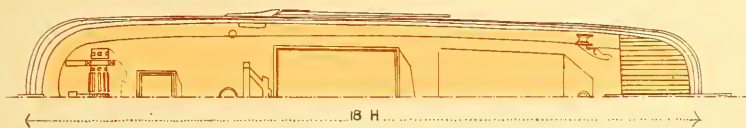


Fig. 20



HUKER — HOEKER — HOWKER
1830
HOURQUE

Amsterdamsche voeten

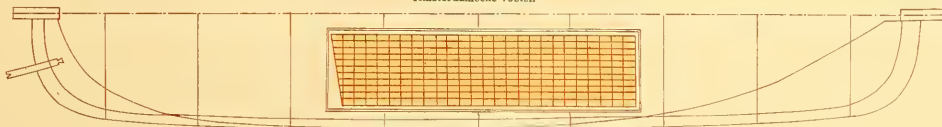
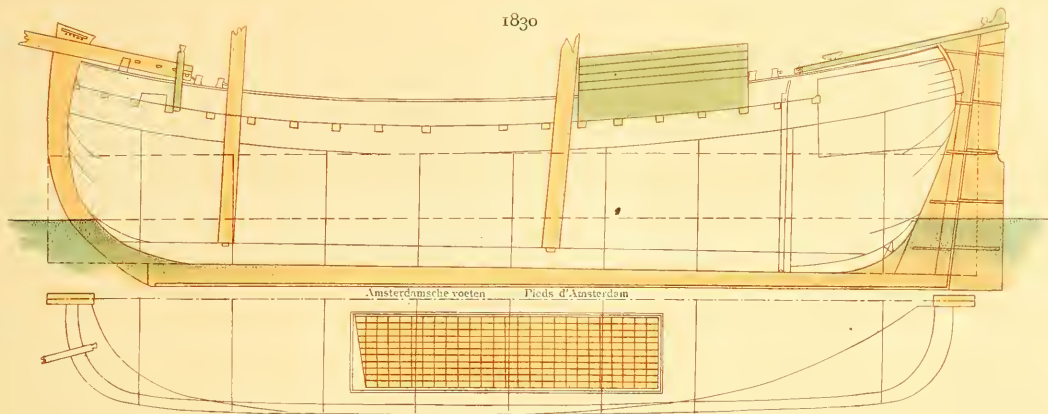
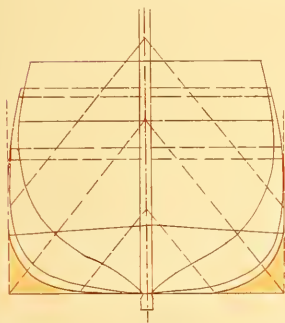


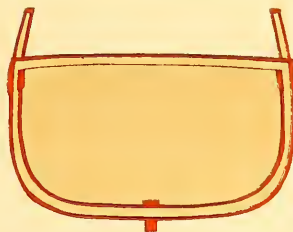
Fig. 21



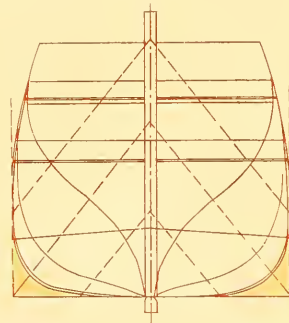
HOEKER — HUKER — HOWKER — HOURQUE



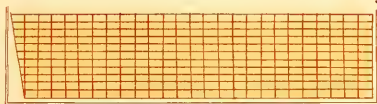
Voorschip
Schiffsvorderteil — Bow
Proue

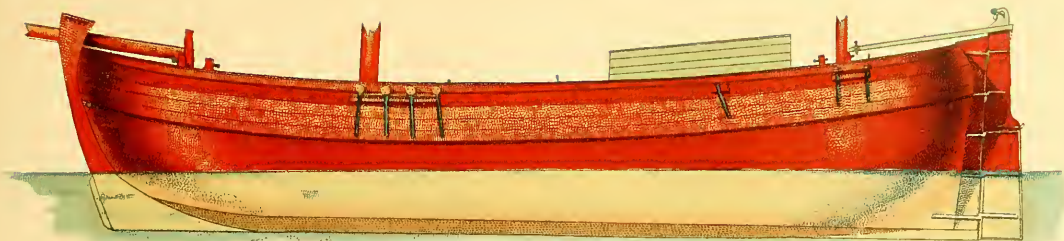


Amsterdamsche voeten

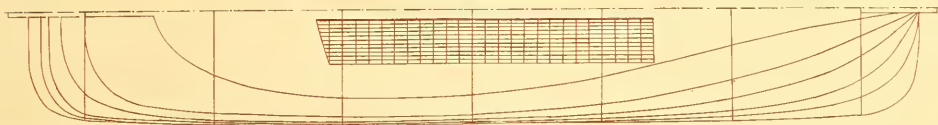


Achterschip
Schiffshinterteil — Stern
Poupe

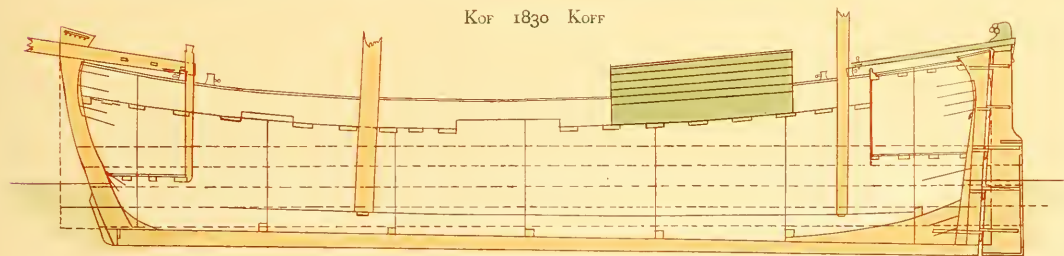




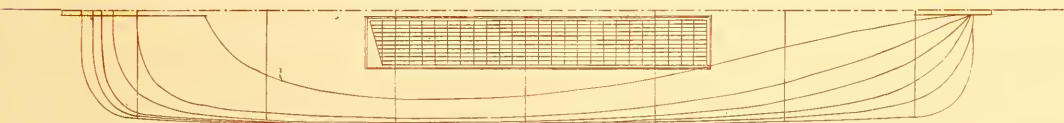
Amsterdamsche voeten



Kof 1830 Koff



Amsterdamsche voeten



Kof 1830 Koff

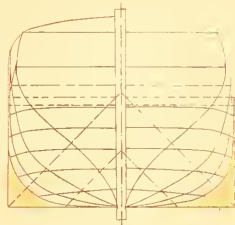
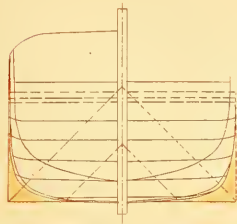


Fig. 22



Amsterdamsche voeten

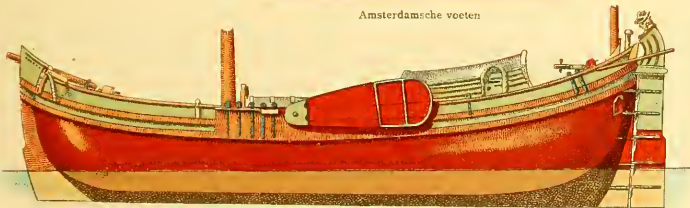
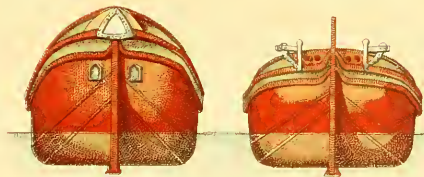
SMAK 1777 SMACK
SEMAQUE

Fig. 23

Hoy. KAAG. KAG. CAGUE.

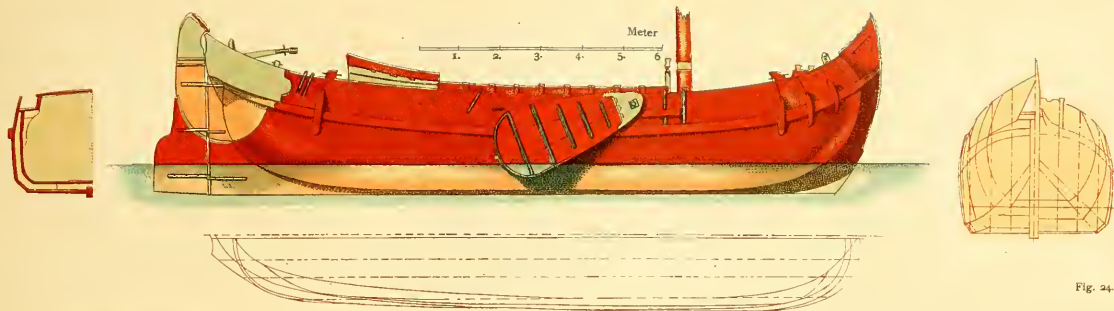
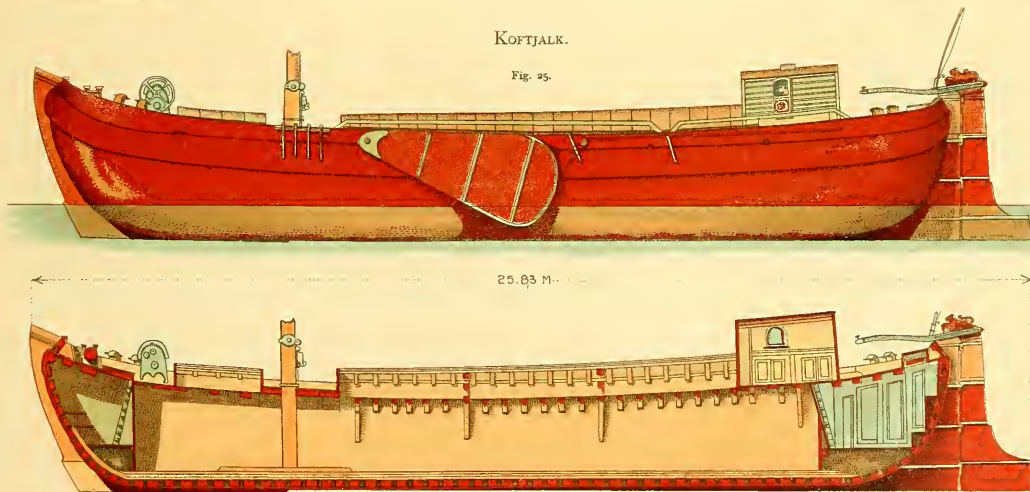


Fig. 24.

KOFTJALK.

Fig. 25.



KOFJALK.

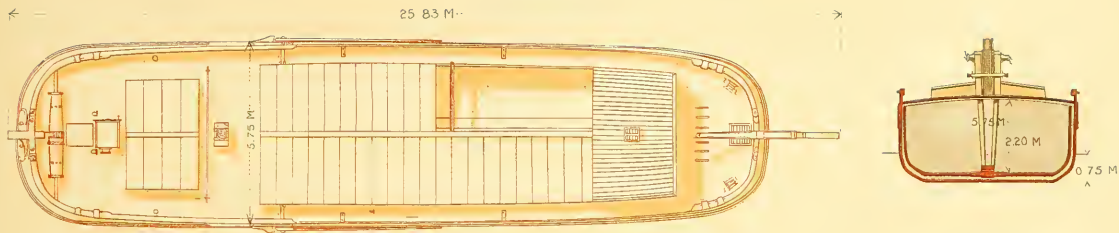
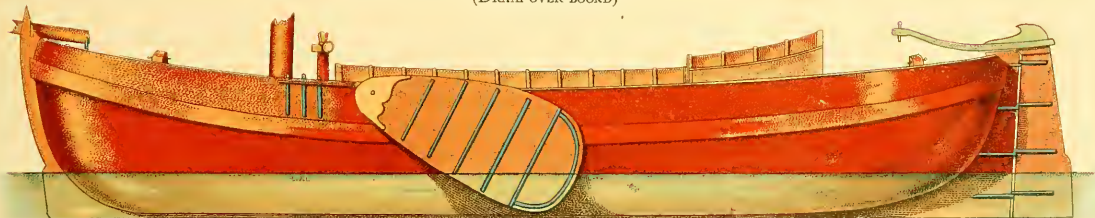


Fig. 25.

TJALK.
(DRAAI-OVER-BOORD)

TJALK MIT DREH ÜBER BORD.

HOY, WITH TILLER SWINGING OVER THE GUNWALE.

TJALQUE AVEC « DRAAI-OVER-BOORD ».

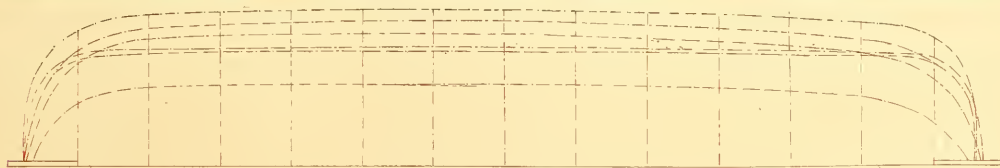
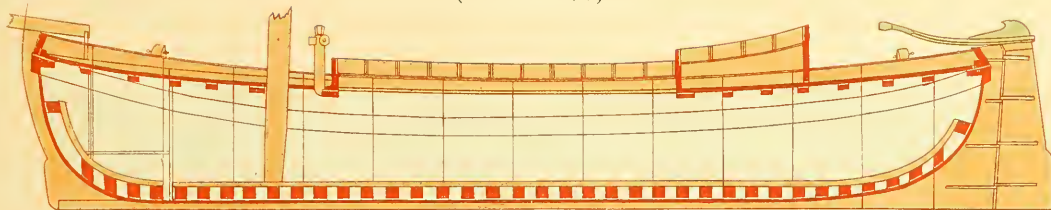


Fig. 26.

TJALK.
(DRAAI-OVER-BOORD)



TJALK MIT DREH ÜBER BORD.

HOY, WITH TILLER SWINGING OVER THE GUNWALE.

TIALQUE AVEC « DRAAI-OVER-BOORD ».

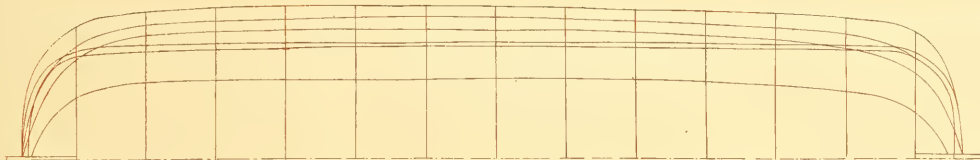
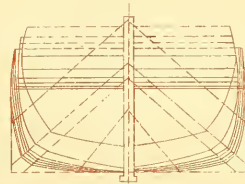
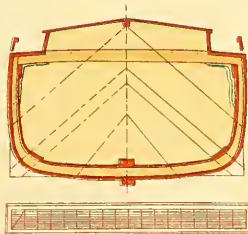
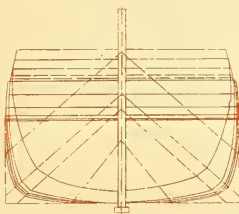


Fig. 20.



Amsterdamsche voeten van 21 duim.

ZUID-HOLLANDSCHE GAFFELTJALK.
 SUD-HOLLÄNDISCHE GAFFELTJALK. GAFFELTJALK OF SOUTH HOLLAND.
 GAFFELTJALK DE LA HOLLANDE MÉRIDIONALE.

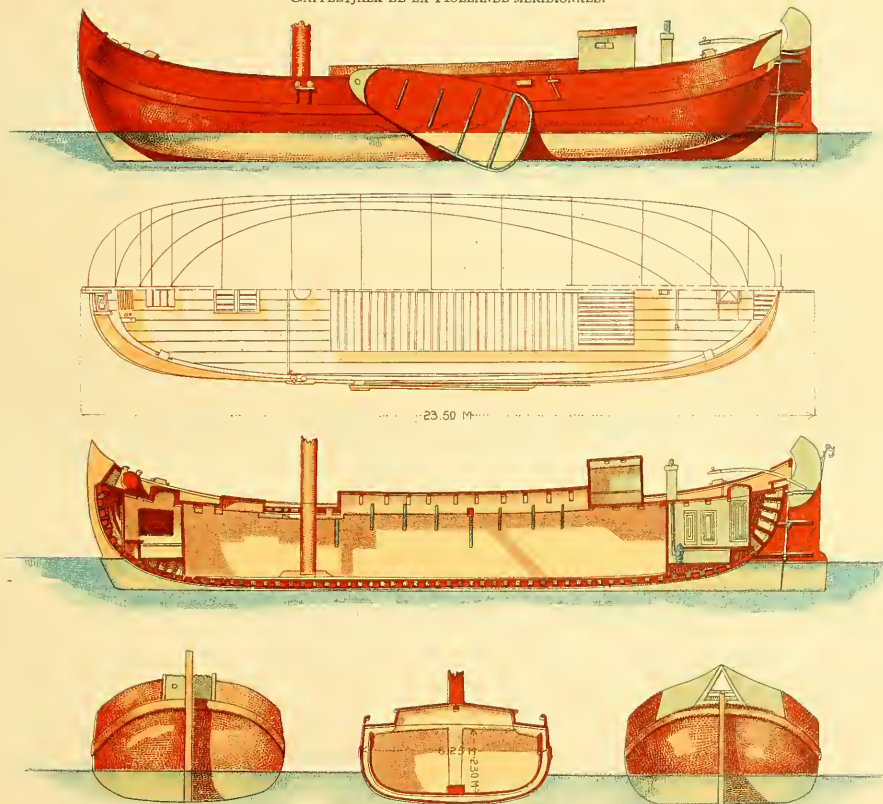
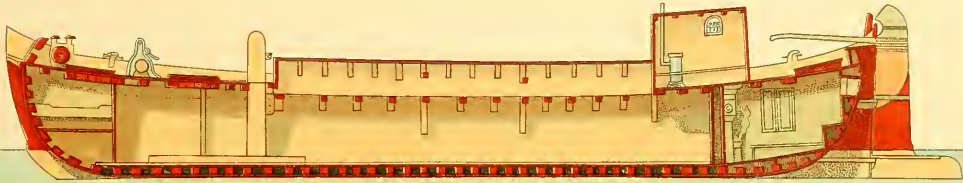


Fig. 27.

« STATIETJALK. »



Schaal
 Massstab 1 : 100 Scale
 Ebelle

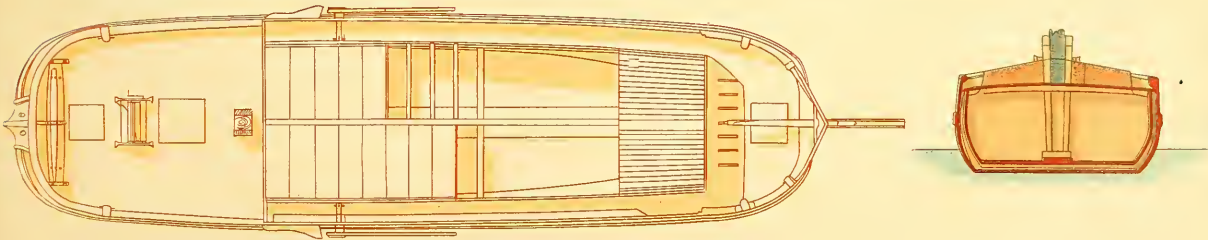
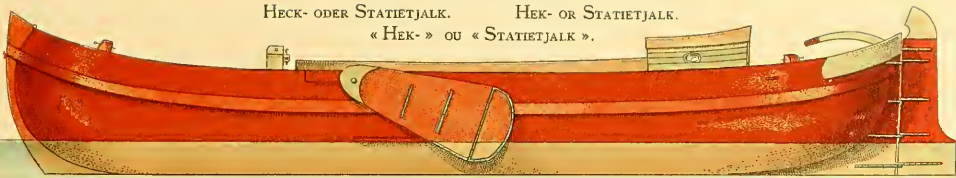


Fig. 28.

HEK- OF STATIETJALK.
 HEK- ODER STATIETJALK. HEK- OR STATIETJALK.
 « HEK- » OU « STATIETJALK ».



Schaal
 1 : 100 Scale
 Echelle

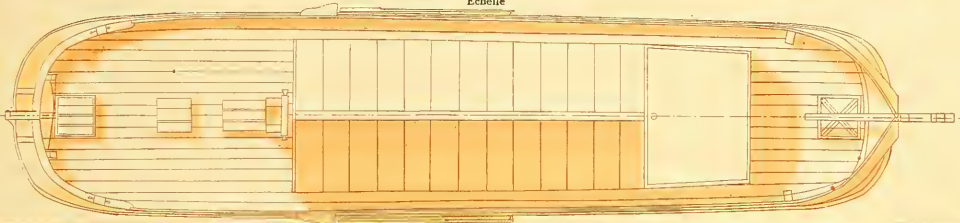


Fig. 29.



« AARTJALK. »

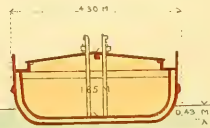
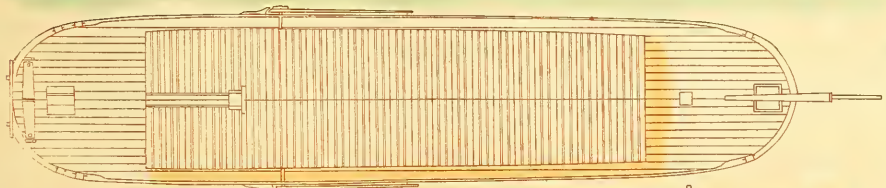
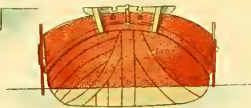


Fig. 30.

SOMP OF PEGGE.
 SOMP ODER PEGGE. SOMP OR PEGGE.
 «SOMP» OU «PEGGE».

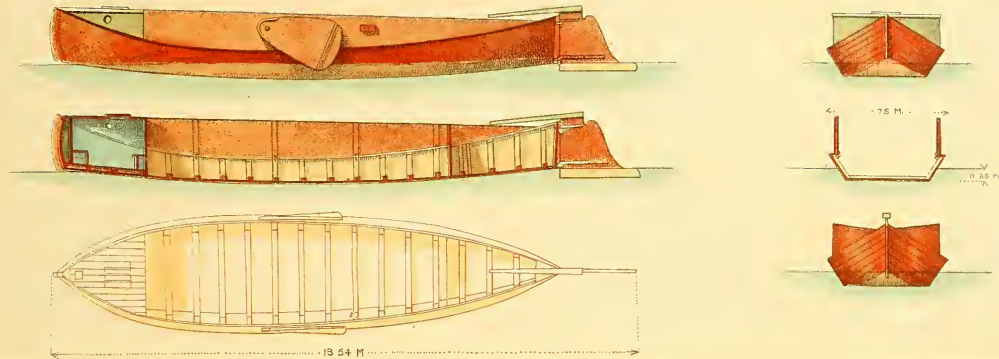


Fig. 31.

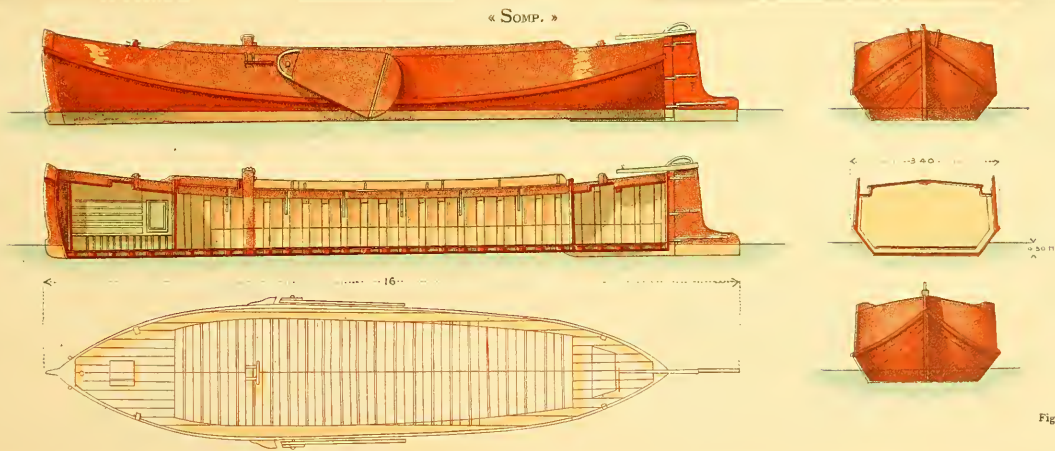
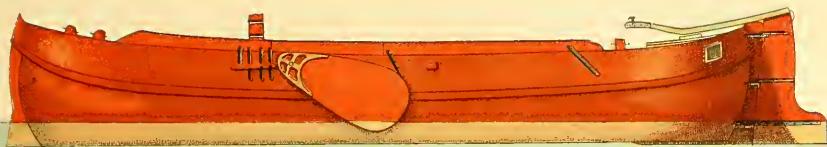


Fig. 32.

« BEURTSOMP. » — RANGSCHIFF.



Schaal
 Massstab 1 : 100 Scale
 Echelle

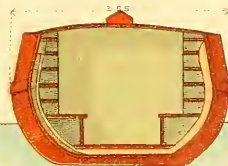
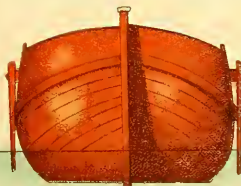
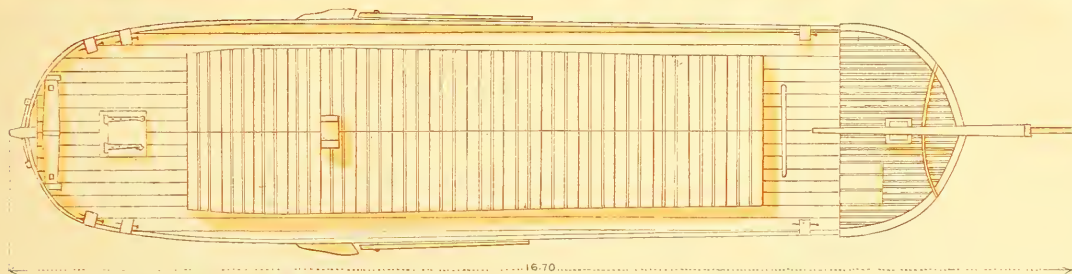
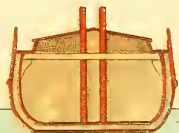


Fig. 33.

« SNIJBOON. » — BOHNE.

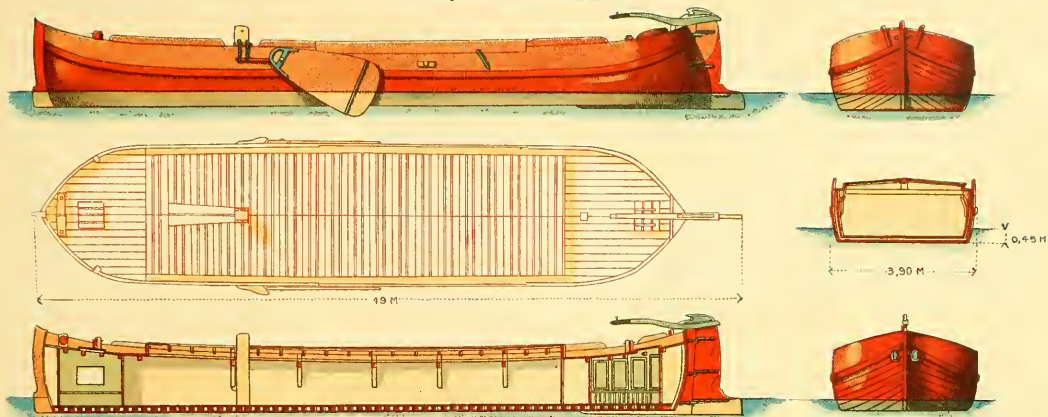


Fig. 34.

OVERIJSELSCHÉ PRAAM.

PRAHM VON OVERIJSEL.

PRAM FROM OVERIJSEL.

PRAME DE L'OVERIJSEL.

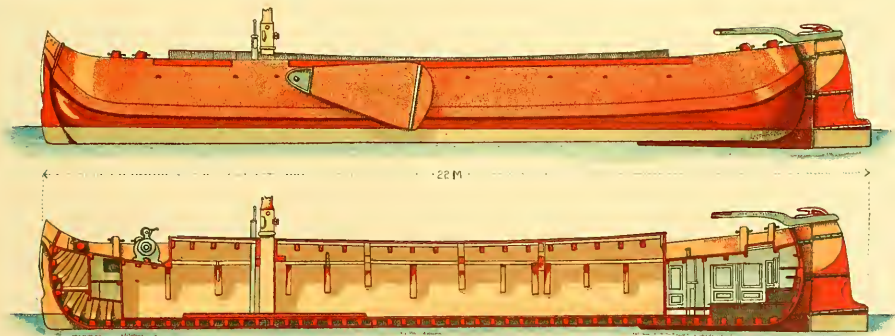


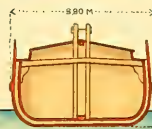
Fig. 35.

PAVILJOENPRAAM.

PRAHM MIT UNTERBROCHENEM DECK.

PRAM WITH PAVILJOENDEK.

PRAME A FONT COUPÉ (PAVILJOENPRAAM).



0.50 M

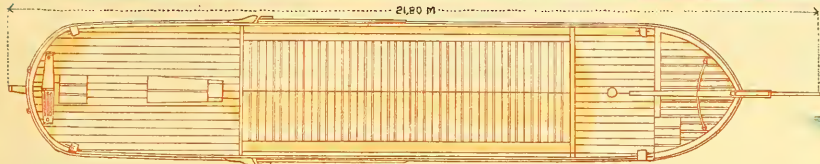


Fig. 36.

« PRAAMAK. »

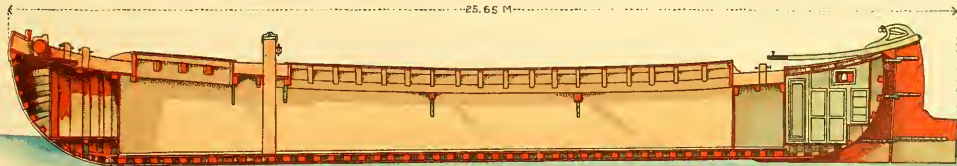
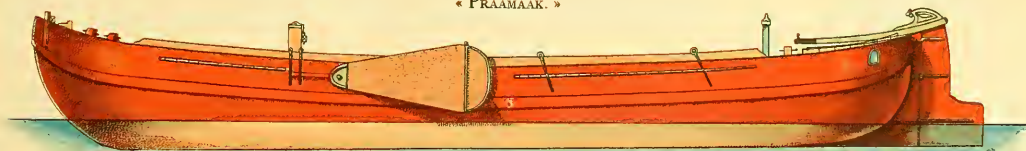
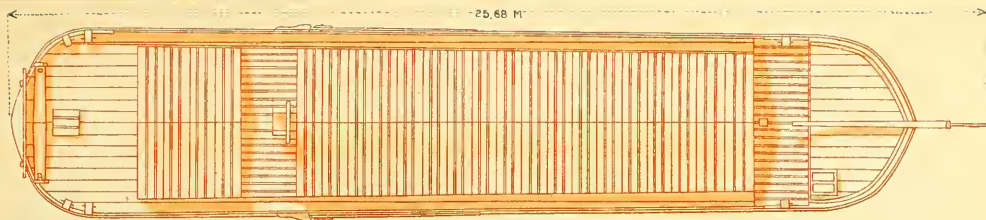


Fig. 37.



« PRAAMAK. »

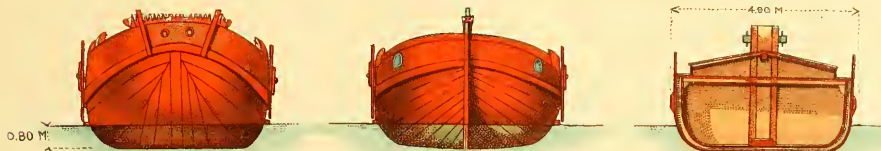


Fig. 38.

HOOGVEENSCH E PRAAM.

HOOGVEENSCH E PRAHM.

PRAM FROM HOGEVEEN.

PRAME D'HOGEVEEN.

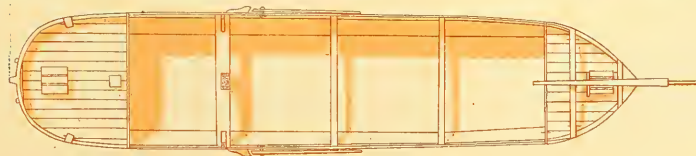
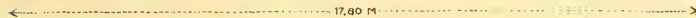
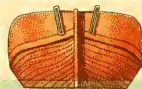
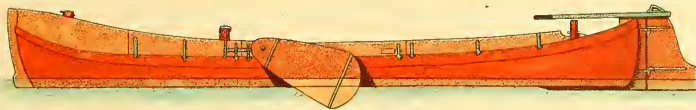


Fig. 39.

ZEEUWSCHE POON.

SEELÄNDISCHE POON.

SCOW FROM ZEELAND.

POON DE LA ZÉLANDE.

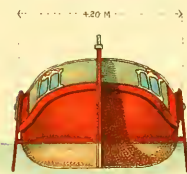
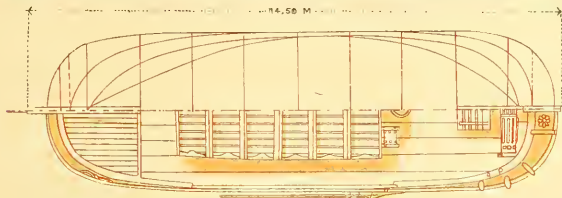
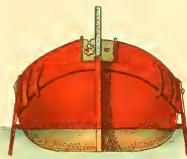
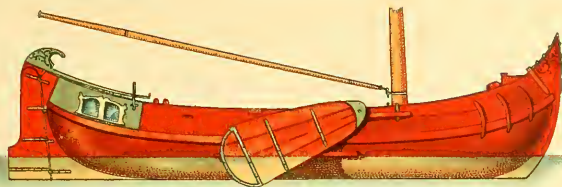


Fig. 40.

« STATIE POON. »

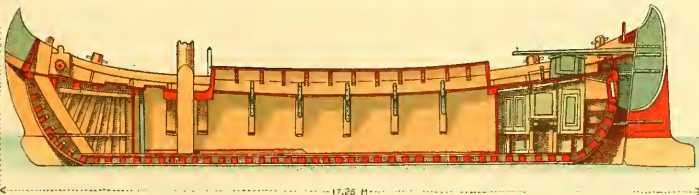
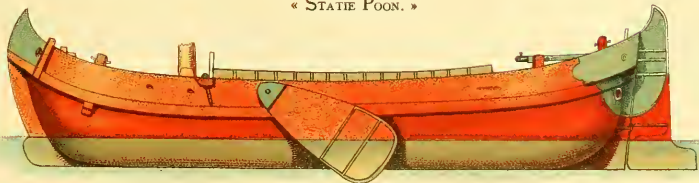


Fig. 41.

« STATE POON. »

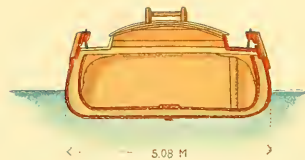
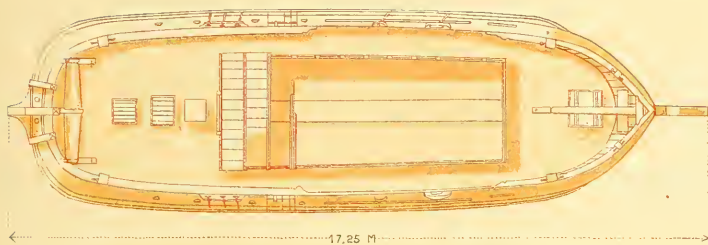


Fig. 41.

« STATE-PAVILJOEN-POON. »

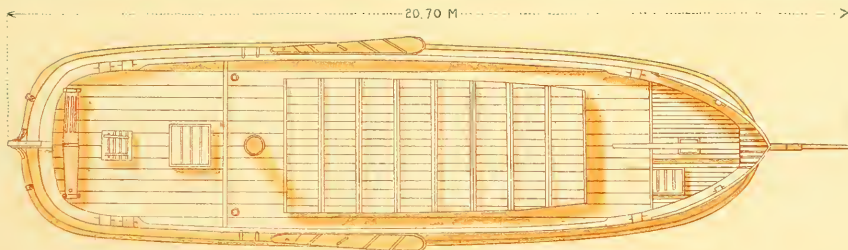
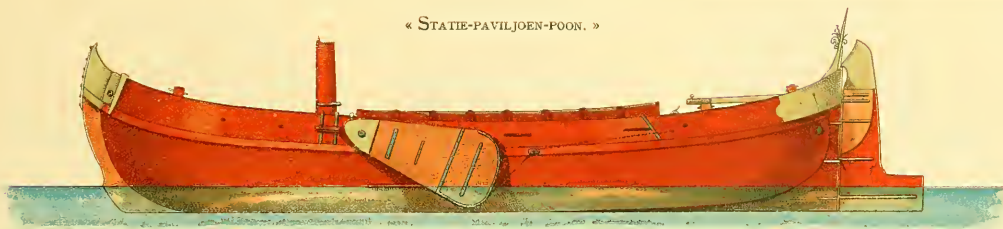


Fig. 42.

« STATIE-PAVILJOEN-POON. »

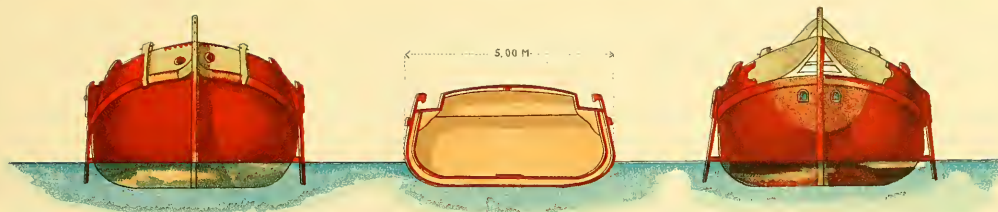
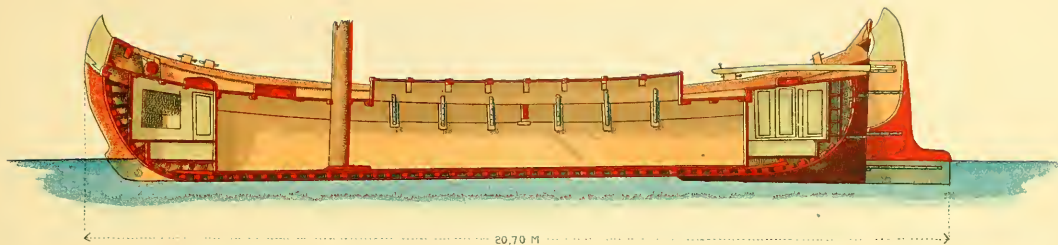


Fig. 42.

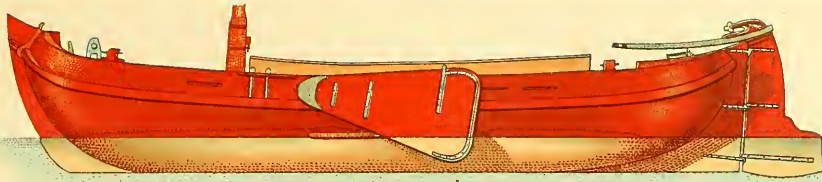
« PAVILJOEN POON. »



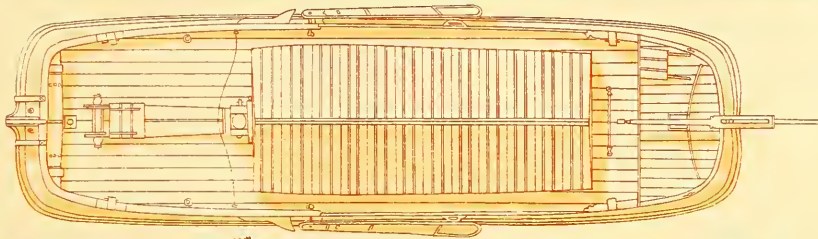
« STATIEPOON. »



Fig. 43.



Schaal
1 : 100
Massstab



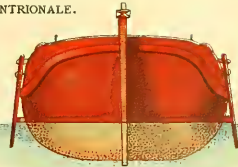
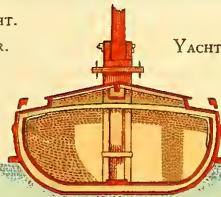
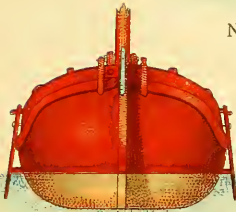
Scale
1 : 100
Echelle



Fig. 44

NOORD-HOLLANDSCH YACHT.
NORTH HOLLAND TENDER.

NORD-HOLLÄNDISCHE YACHT.
YACHT DE LA HOLLANDE SEPTENTRIONALE.

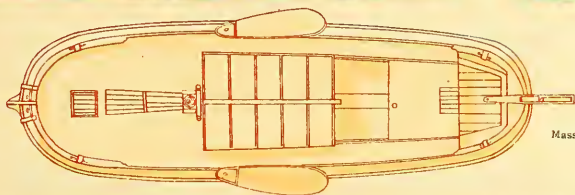
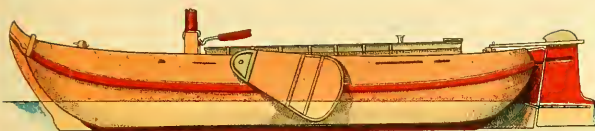


NOORD-HOLLANDSCH YACHT.

NORD-HOLLÄNDISCHE YACHT.

NORTH HOLLAND TENDER.

YACHT DE LA HOLLANDE SEPTENTRIONALE.



Massstab

Schaal

1 : 100

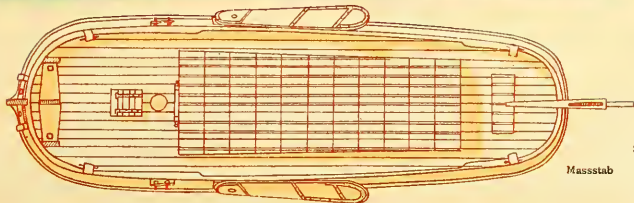
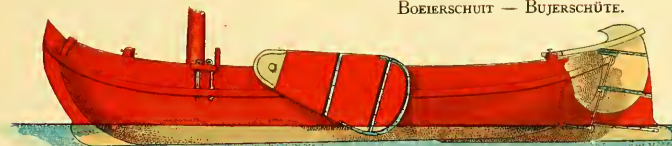
Echelle

Scale



Fig. 45.

BOEIERSCHUIT — BUJERSCHÜTE.



Massstab

Schaal

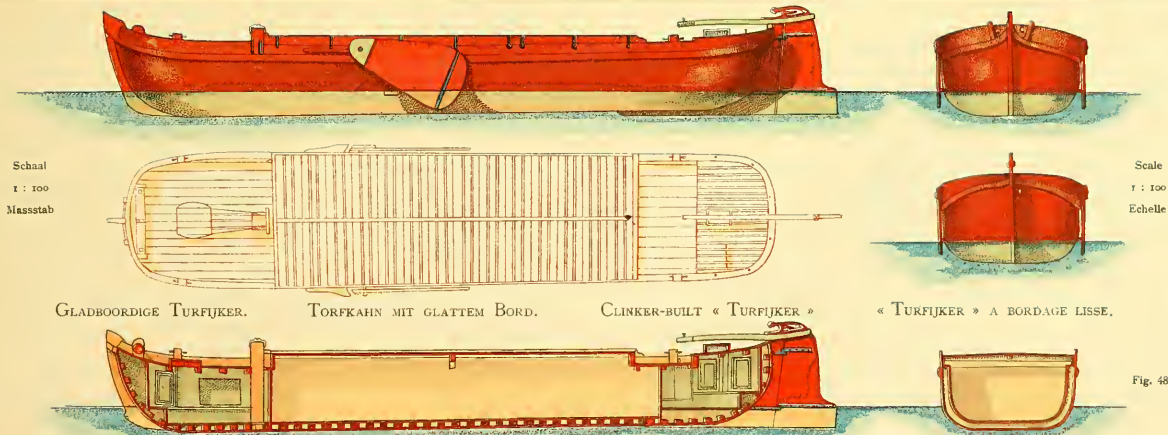
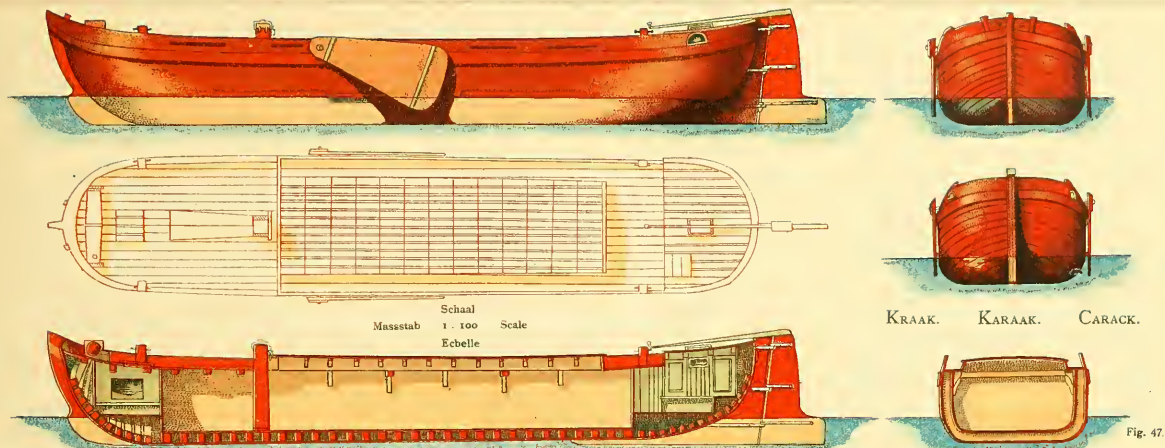
1 : 100

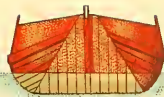
Echelle

Scale



Fig. 46.



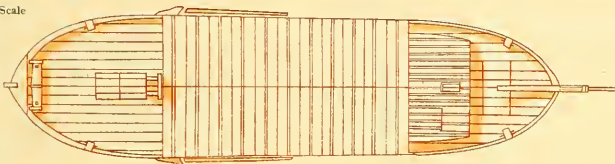


Schaal

Massstab 1 : 100

Scale

Echelle

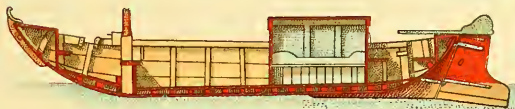
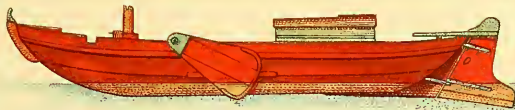


BOEIERAAK.

BUJERAAK.



Fig. 49.

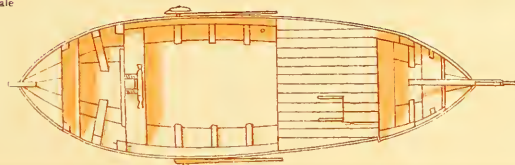


Schaal

Massstab 1 : 100

Scale

Echelle

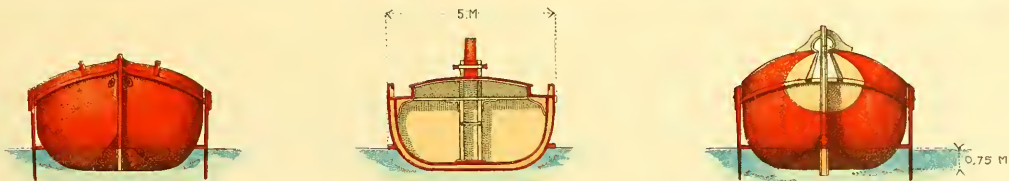
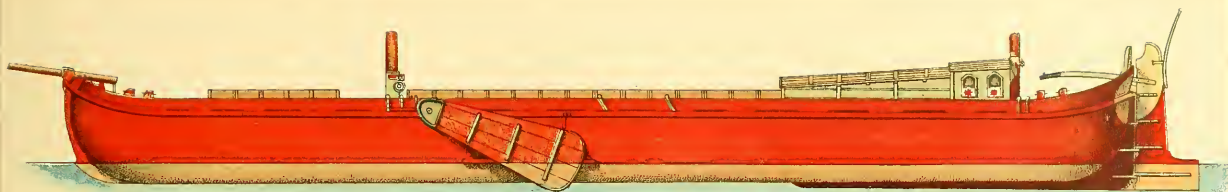


BOEIERAAKJE.

KLEINE BUJERAAK.



Fig. 50.



VLAAMSCHÉ PLEIT.

FLÁMISCHÉ PLEIT.

FLEMISH PLEIT.

PLEIT FLAMAND.

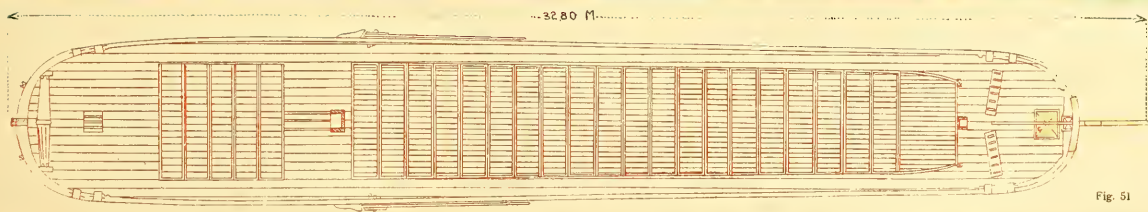
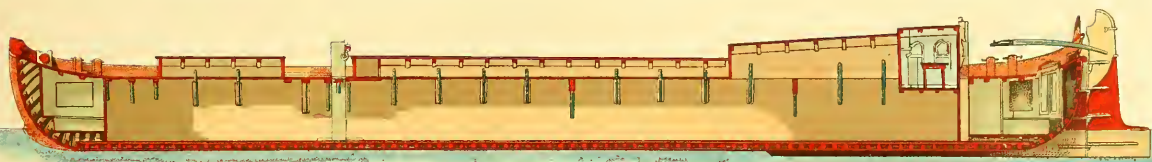
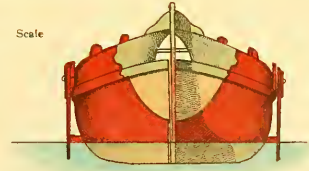
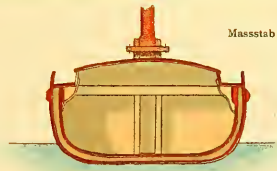
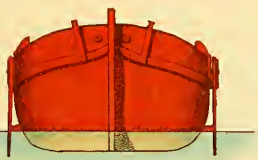
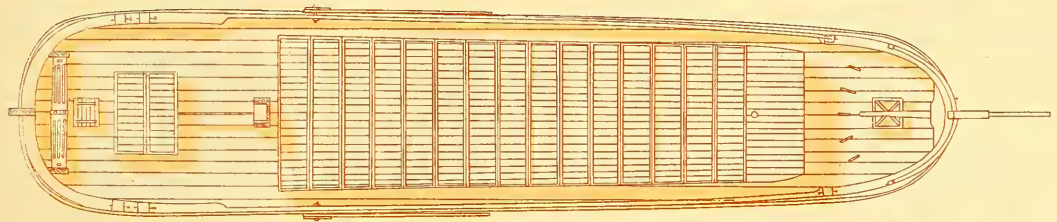
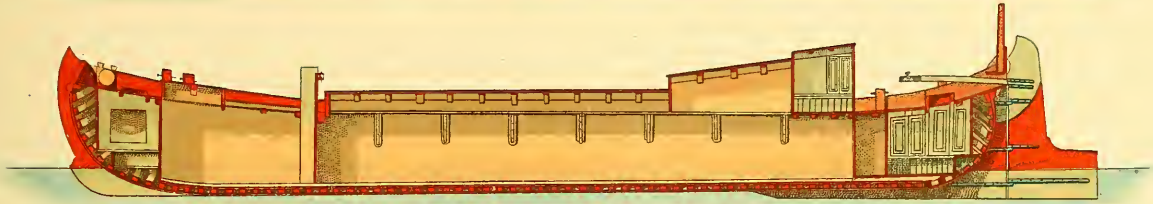
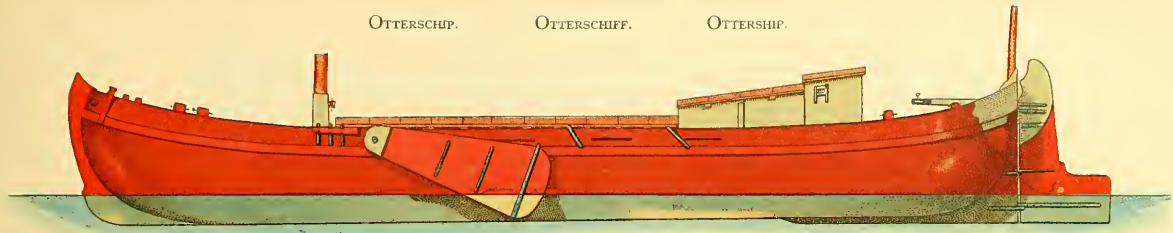


Fig. 51

OTTERSCHIP.

OTTERSCHIFF.

OTTERSHP.



Schaal
Massstab 1:100 Scale
Echelle

Fig. 52

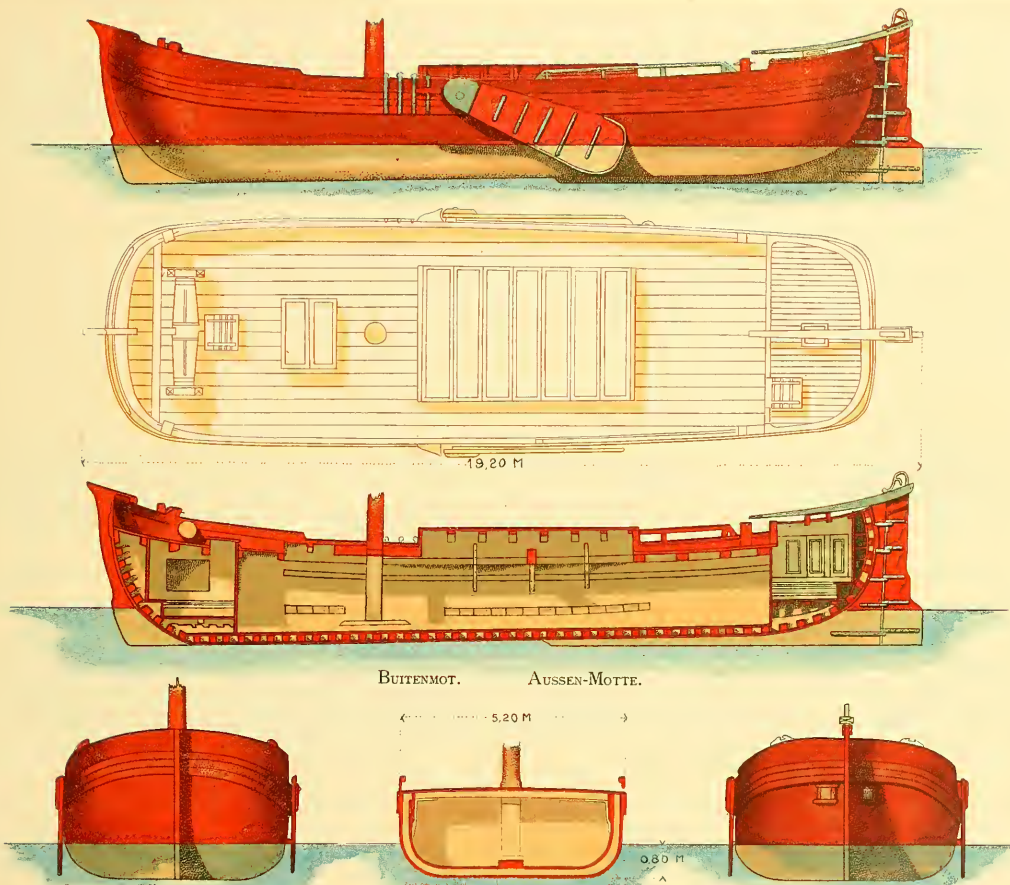
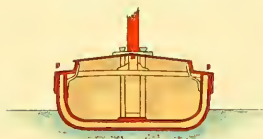
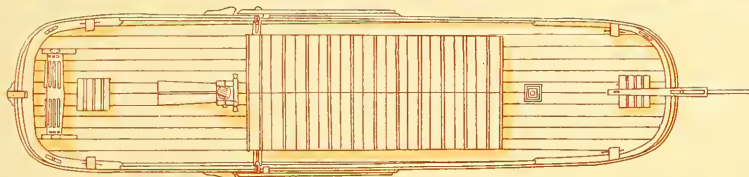


Fig. 53.

BINNENMOT.

BINNEN-MOTTE.



Schaal

Maasstab 1:100 Scale

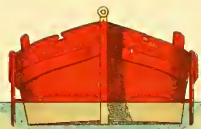
Ecbelle



Fig. 54

SPITSEMOT.

SPITZ-MOTTE.



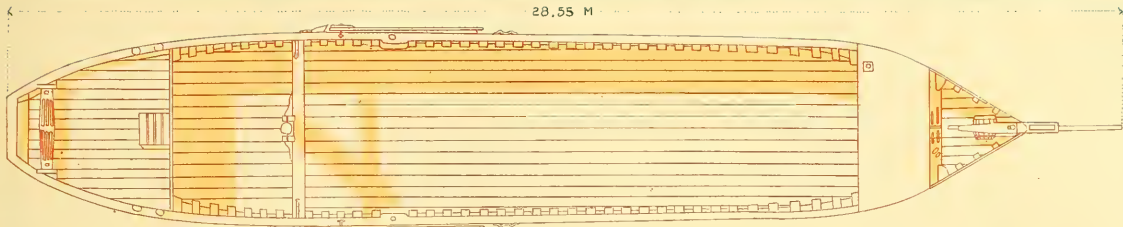
Schaal Maasstab 1:100 Scale Ecbelle

Fig. 55

« EEMSPUNT. »



28,55 M

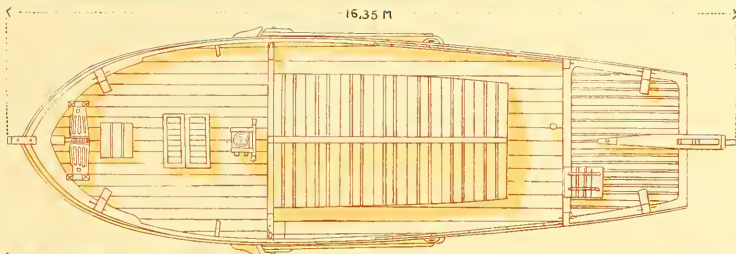
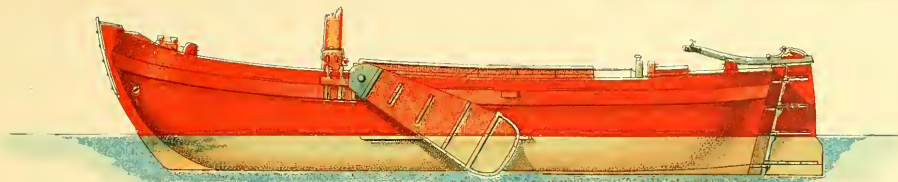


5,00 M

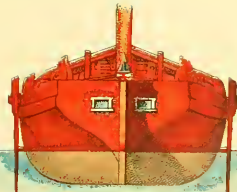
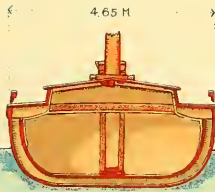


0,40 M

Fig. 56.



« BREMERKAHN. »



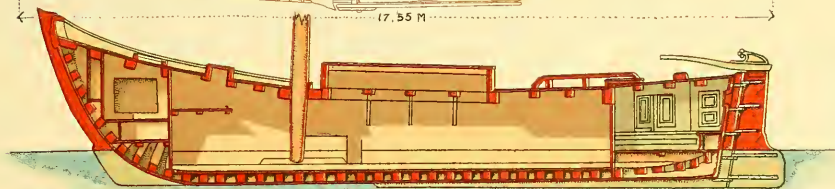
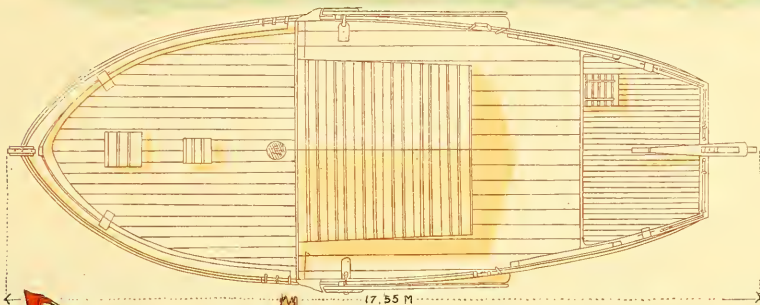
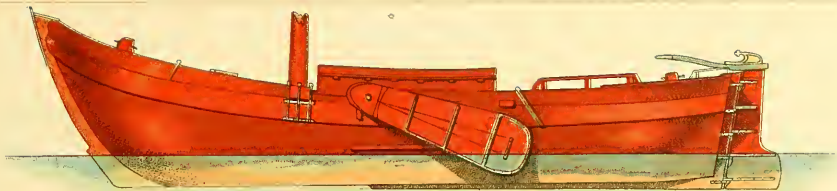


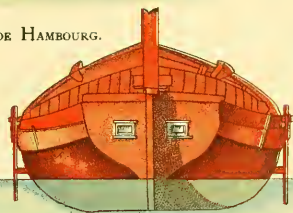
Fig. 58.



HAMBURGER EVER.



EVER FROM HAMBURG.



EVER DE HAMBOURG.

OVERHAALPONTJE. FÄHRNACHEN. NACELLE.

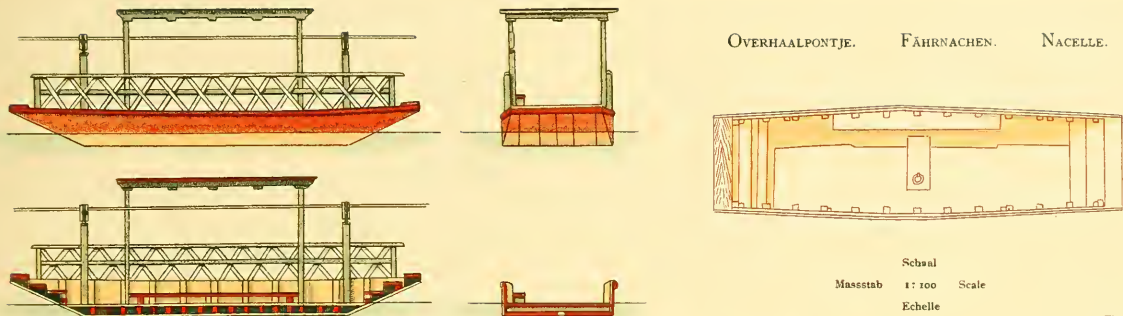
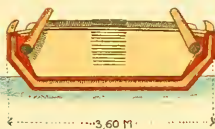
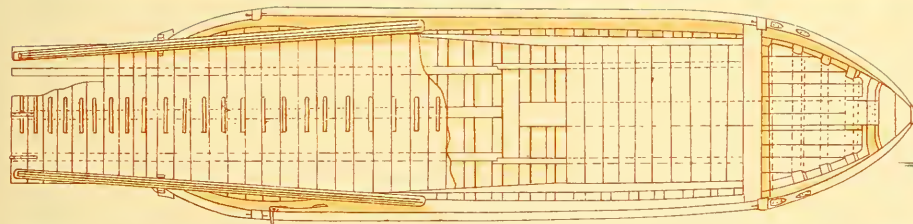


Fig. 59

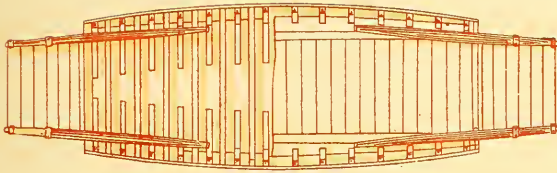


HALVE PONT.
HALB NACHEN.

Fig. 60.



JAAGPONT.



PFERDEFÄHRE.



PASSE-CHEVAL.



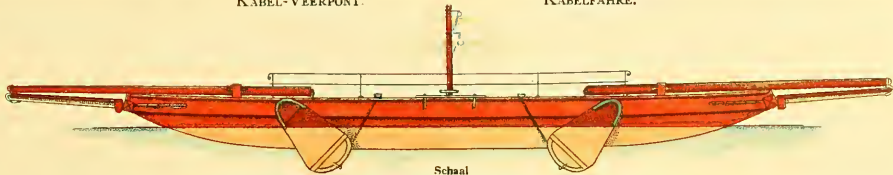
Schaal
: : 100
Echelle
Scale

Fig. 61

KABEL-VEERPONT.



KABELFÄHRE.



Schaal
: : 100
Echelle
Scale

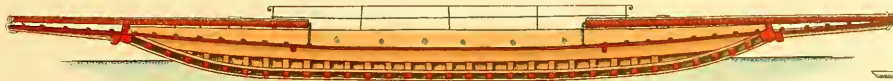
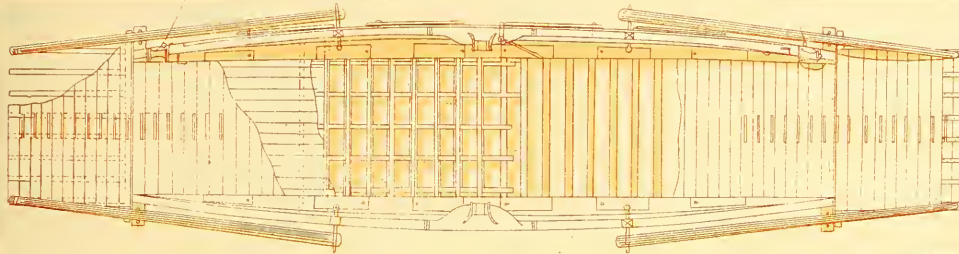


Fig. 62.



GIERPONT. GIERFÄHRE.

Schaal
 Massstab 1 : 100 Scale
 Echelle

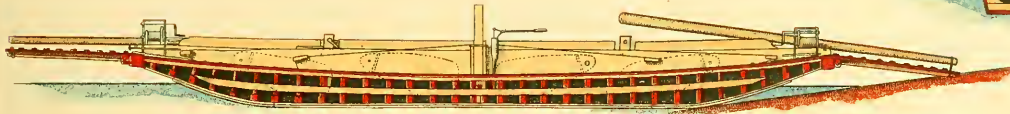
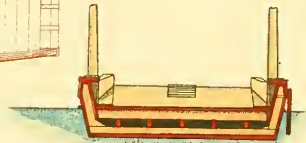


Fig. 63

« HALVE PONT. » (PIJPER)



Schaal Massstab 1 : 100 Scale Echelle

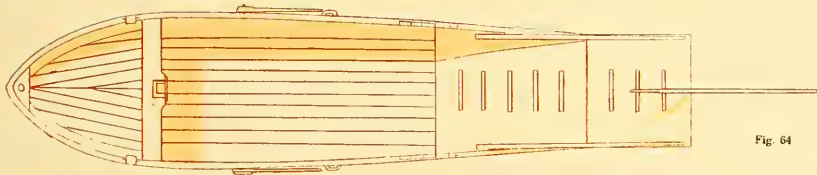


Fig. 64

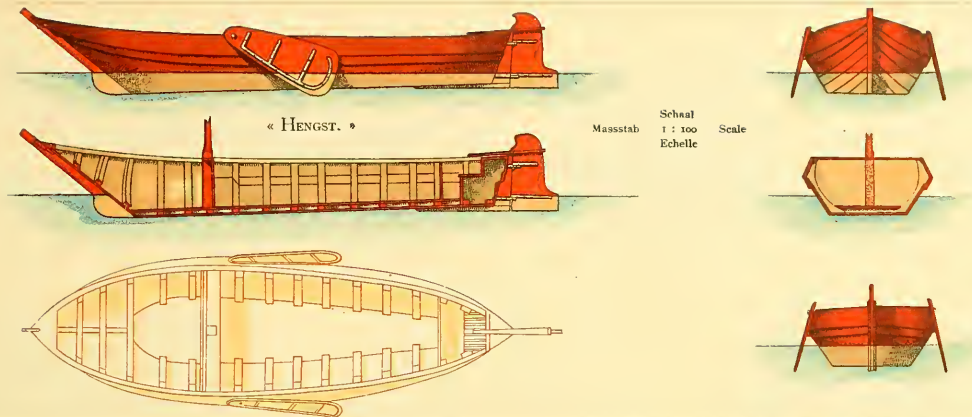


Fig. 65.

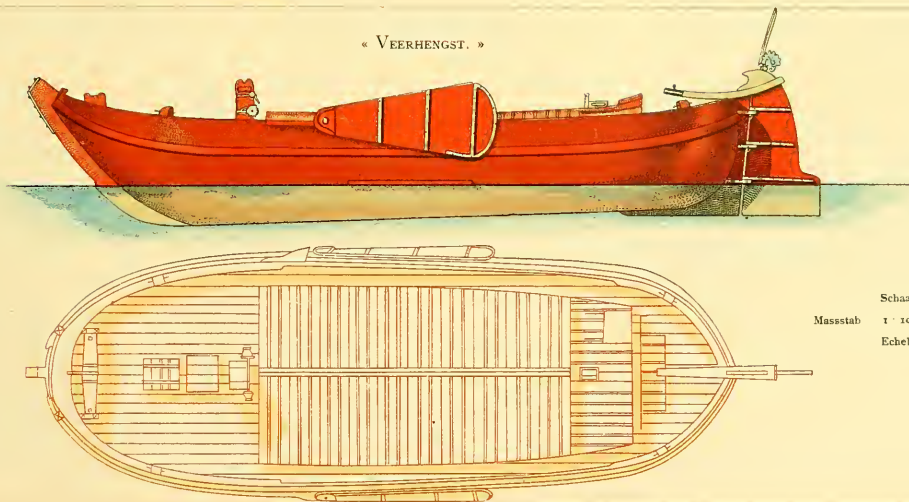


Fig. 66.



« HENGST. »

Massstab

Schaal
1 : 100
Echelle

Scale

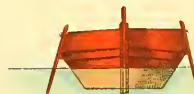
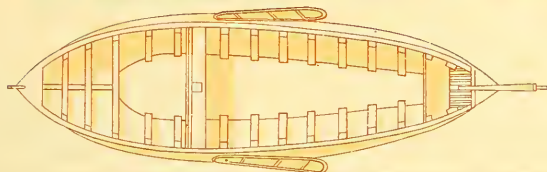
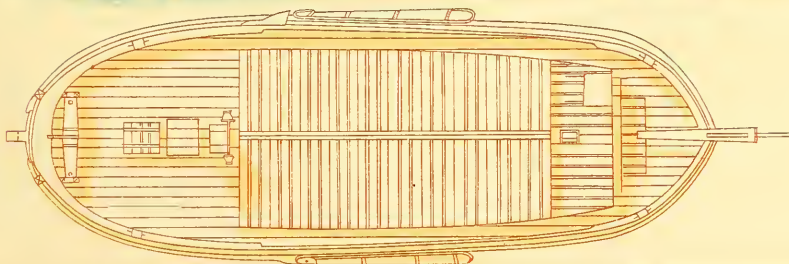


Fig. 65.

« VEERHENGST. »



Schaal
1 : 100
Echelle

Massstab
1 : 100
Echelle

Scale

Fig. 66.

« VEERHENGST. »

Schaal
 Maasstab 1 : 100 Scale
 Echelle

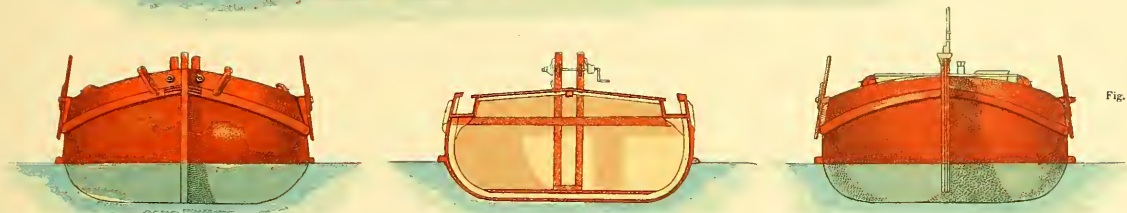


Fig. 66.

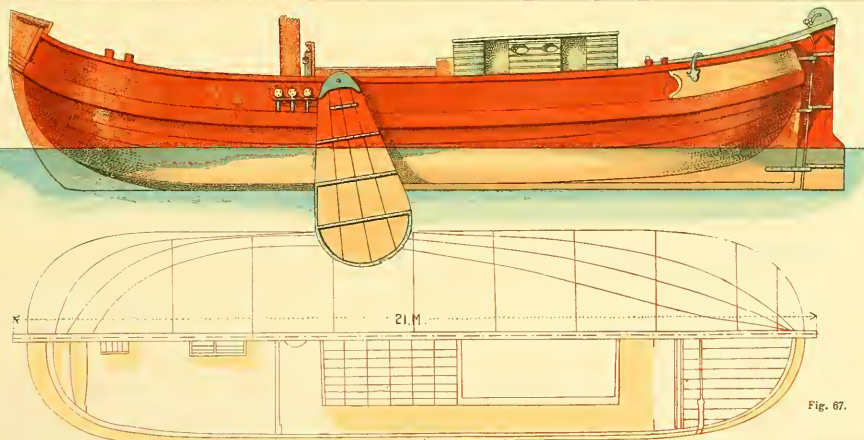
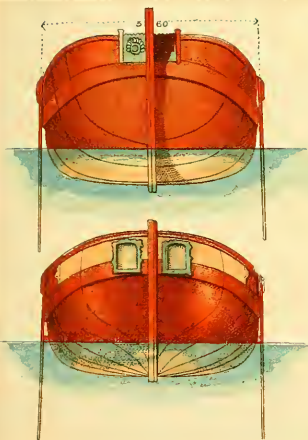
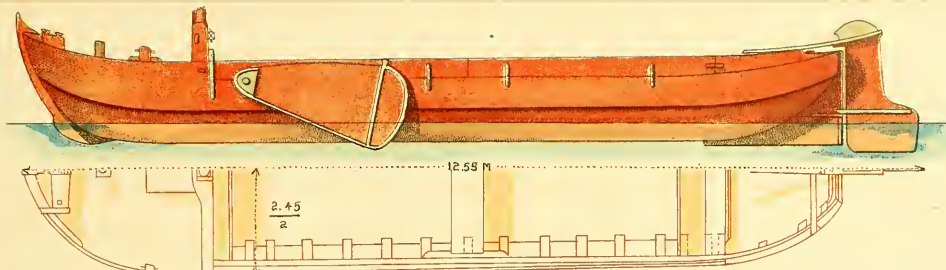


Fig. 67.

VEERMAN VAN LEMMER OP AMSTERDAM.
 VEERMAN FROM LEMMER TO AMSTERDAM.

FÄHRKAHN VON LEMMER IN AMSTERDAM.
 VEERMAN DE LEMMER A AMSTERDAM.



VLET OF BAGGERAAK.

NACHEN ODER BAGGERAAK.

FLAT OR BAGGERAAK

FLETTE OU BAGGERAAK.

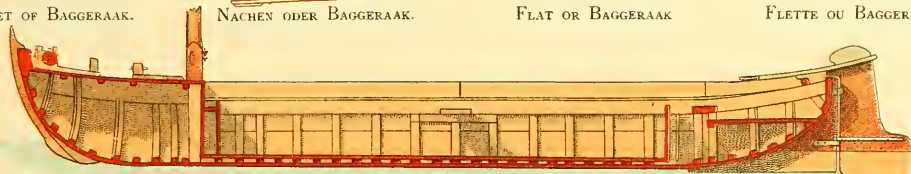
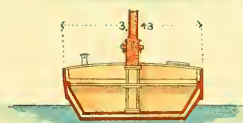
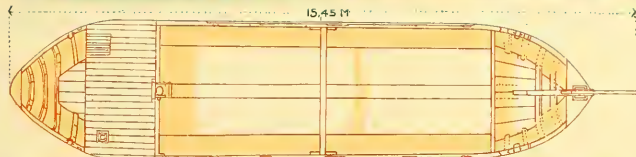


Fig. 68



BOVENMAASSCHE BAGGERAAK.

BAGGERAAK VON DER OBEREN MAAS.

BAGGERAAK FROM THE UPPER MEUSE.

BAGGERAAK DE LA HAUTE MEUSE.

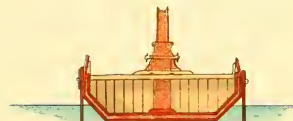
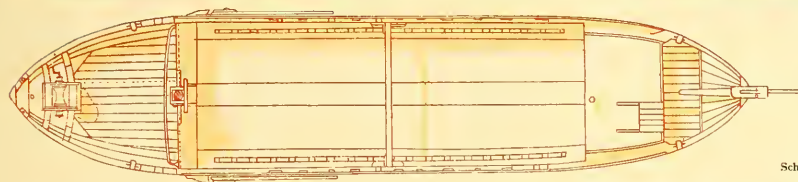


Fig. 69

HEDELSCHE AAK

AKE FROM HEDEL.

AQUE DE HEDEL.



Schaal

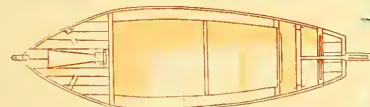
Maasstab

1 : 100 Scale

Echelle

Fig. 70

SNIK (GONDEL).



Schaal
Maasstab 1 : 100 Scale
Echelle

Fig. 71.

« DORTSCHE ZANDSCHUIT. »

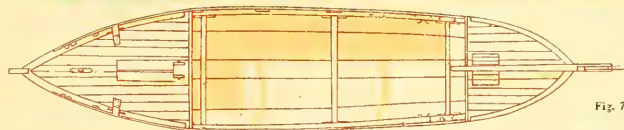


Fig. 72.



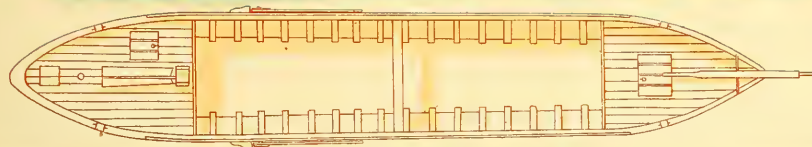
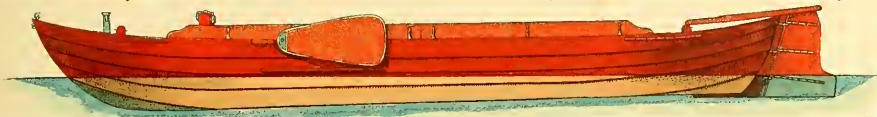
Schaal Maasstab 1 : 100 Scale Echelle

VREESWIJSCHÉ ZANDLICHTER.

SANDLEICHTER VON VREESWIJK.

ZANDLICHTER FROM VREESWIJK.

ZANDLICHTER DE VREESWIJK.



Schaal

Massstab 1 : 100 Scale

Echelle

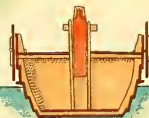


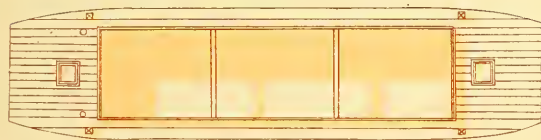
Fig. 73.

LAADBAK.

LEICHTER.

BARGE.

CHALAND.



Schaal Massstab 1 : 100 Scale Echelle

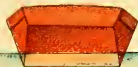
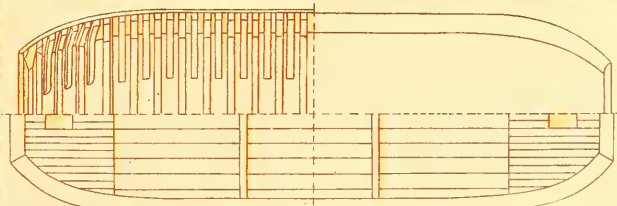


Fig. 74.



« ZOLDERSCHUT. »



Schaal Massstab 1 : 100 Scale Echelle



Fig. 75.



« ZOLDERSCHUIT. »



Schaal

Maasstab 1 : 100 Scale

Echelle

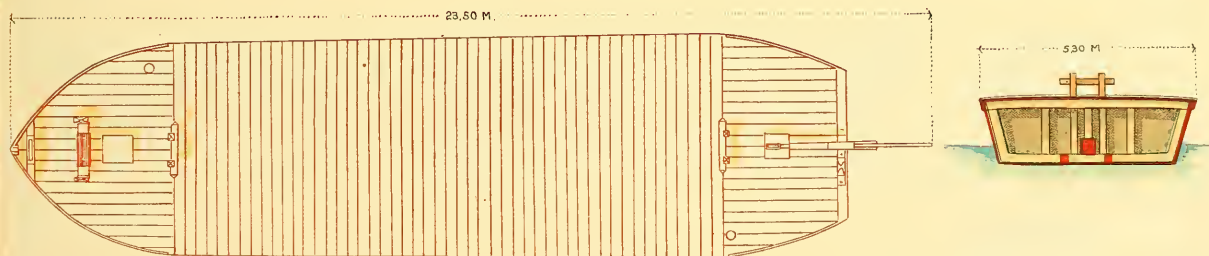
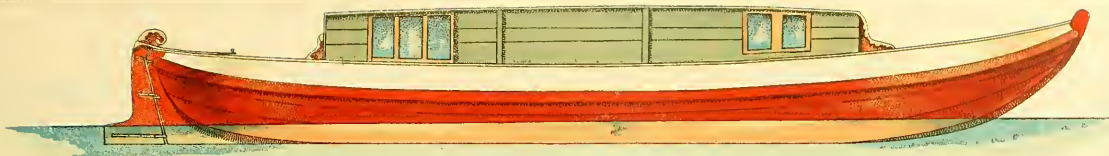


Fig. 76.



« TREKSCHUIT 1830. »



Fig. 77.



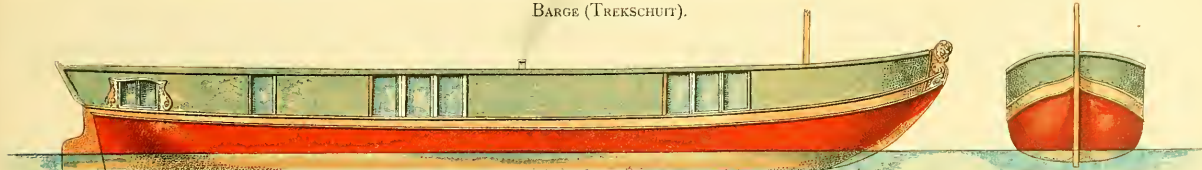
Schaal in ellen, palmen en duimen.

Massstab in Elleo, Faust und Zoll.

Scale of ells, palms and inches.

Echelle en aunes, palmes et pouces.

BARGE (TREKSCHUIT).



Schaal Massstab 1: 100 Scale Echelle

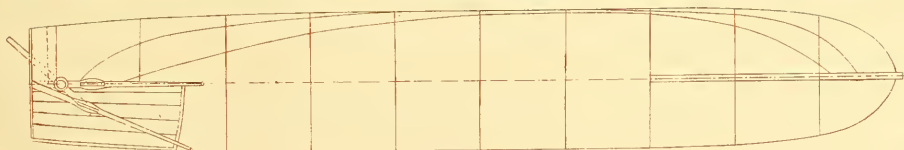
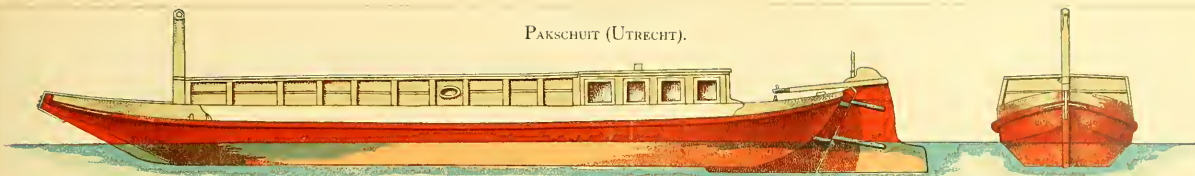


Fig. 78.

PAKSCHUIT (UTRECHT).



Schaal Massstab 1 : 100 Scale Echelle

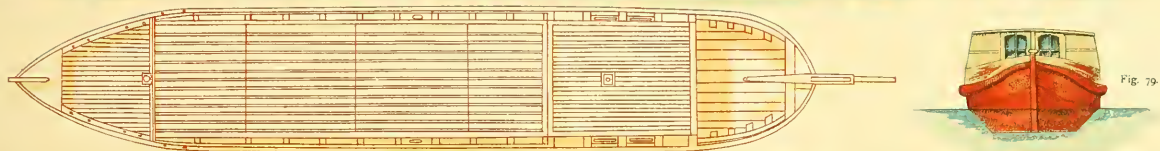
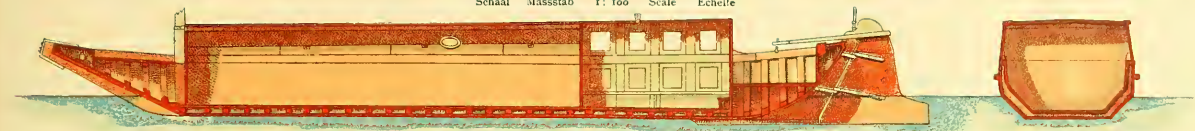


Fig. 79.



TREKSCHUIT (UTRECHT).

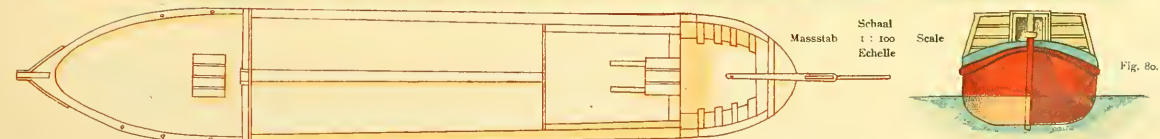
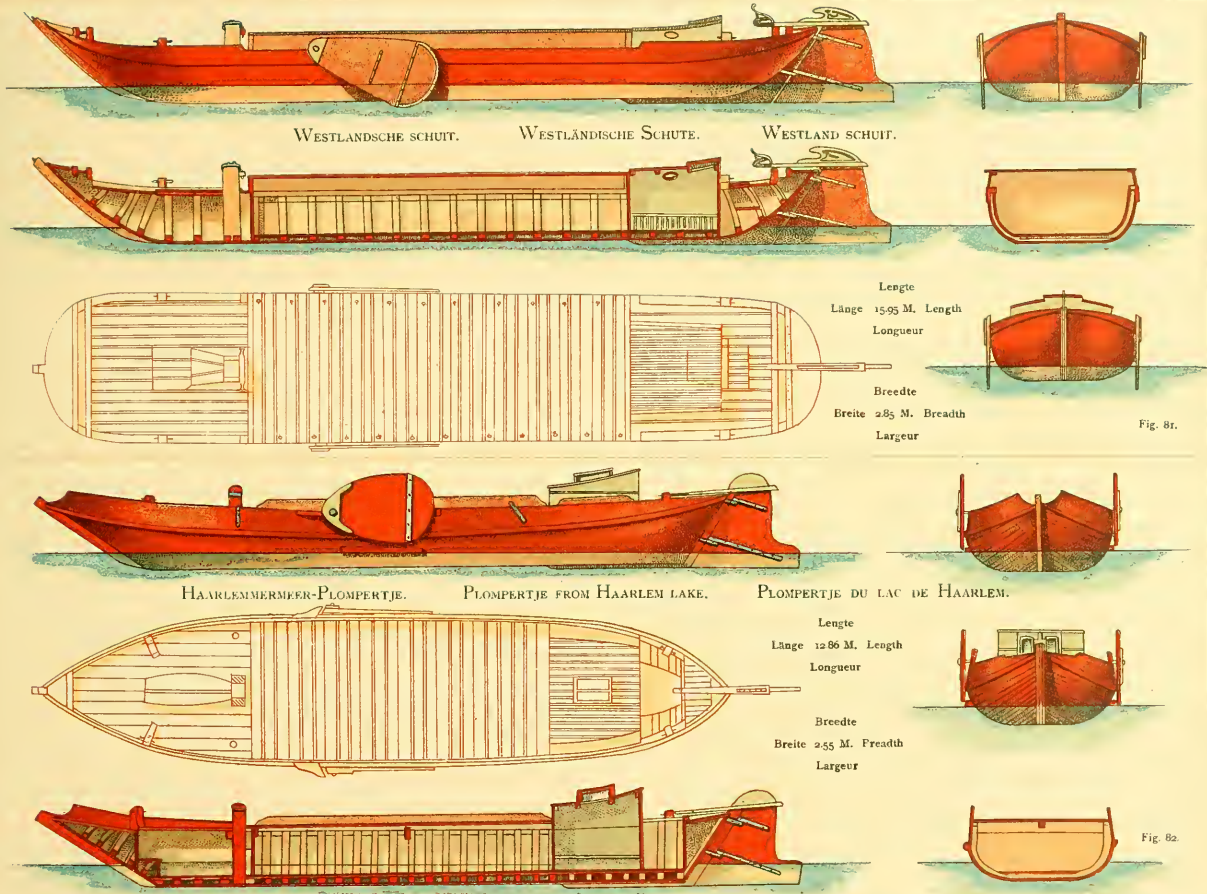
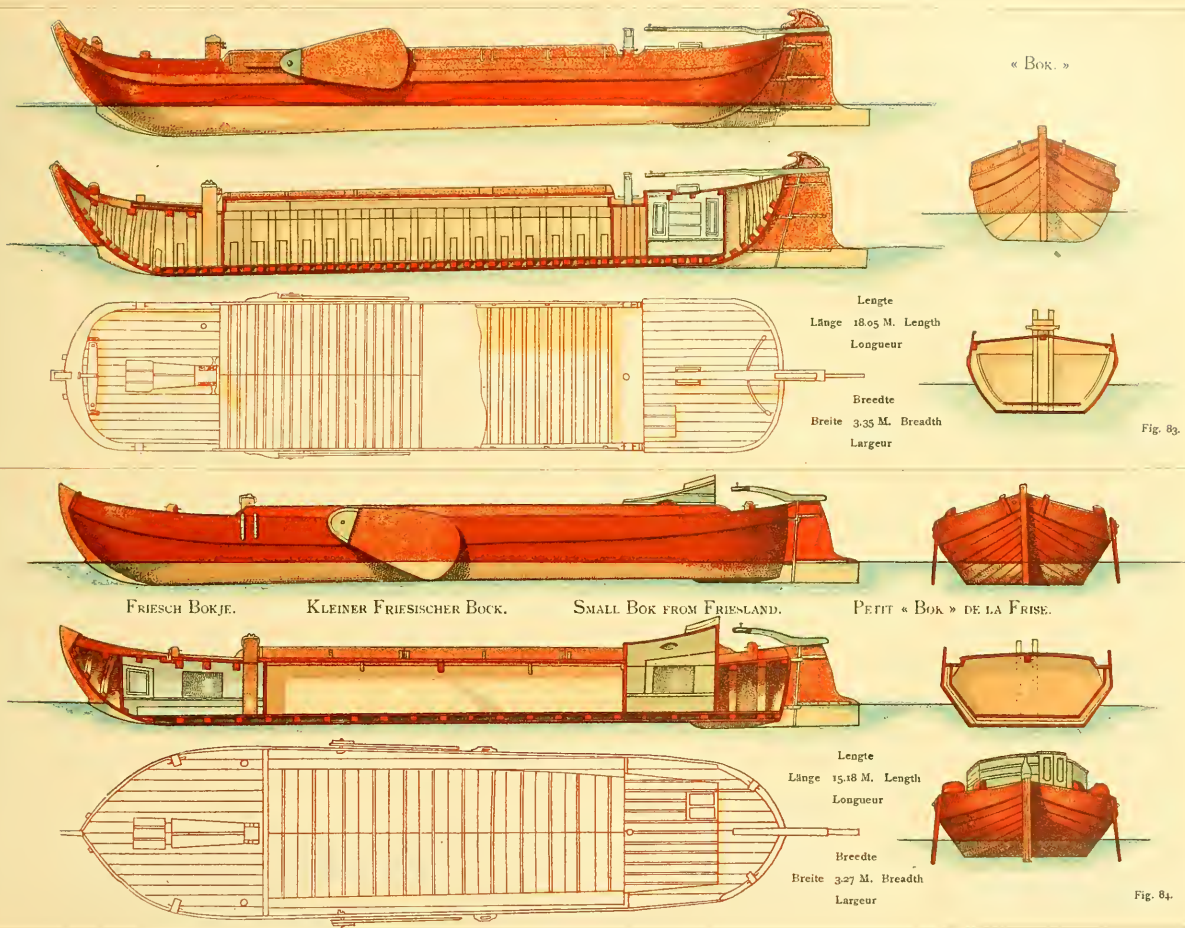
Massstab
1 : 100
Scale
Echelle

Fig. 80.



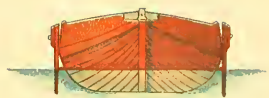




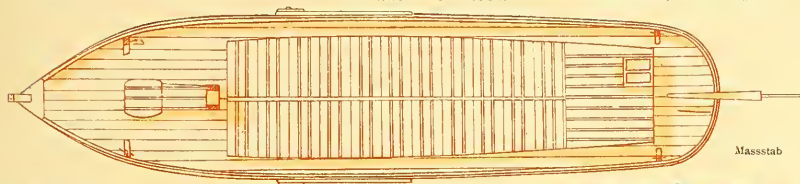
FRIESCHE SNIK.

FRIESISCHE SCHNIGGE.

SNIK FROM FRIESLAND.



SNIK DE LA FRISE.



Schaal
 Massstab 1 : 100 Scale
 Echelle

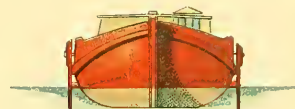
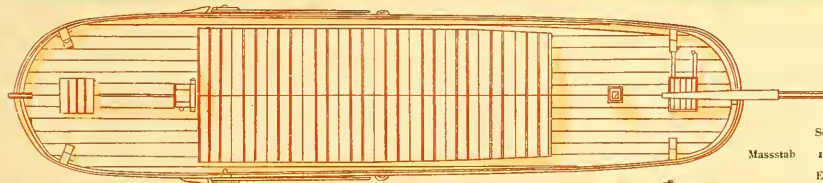


Fig. 85.



« GROENINGER AARDAPPELPRAAAM. »



Schaal
 Massstab 1 : 100 Scale
 Echelle



Fig. 86.

« KROMME RIJNAAK. »



Schaal

Maasstab 1:100 Scale

Echelle

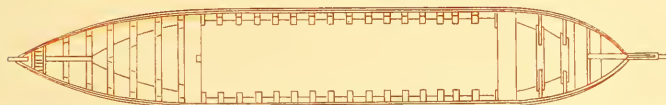


Fig. 87.

« UTRECHTSCH E PRAAM. »



Lengte

Breedte

Länge 14,10 M. Lenght

Breite 2,15 M. Breadth

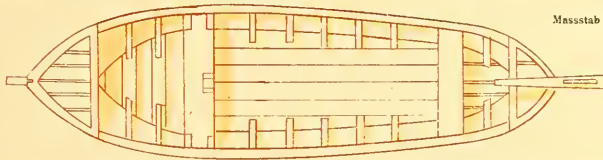
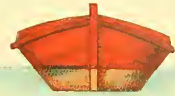
Longueur

Largeur



Fig. 88.

GROENTESCHUIT (HOORN).



Schaal
 Massstab 1 à 50 Scale
 Echelle



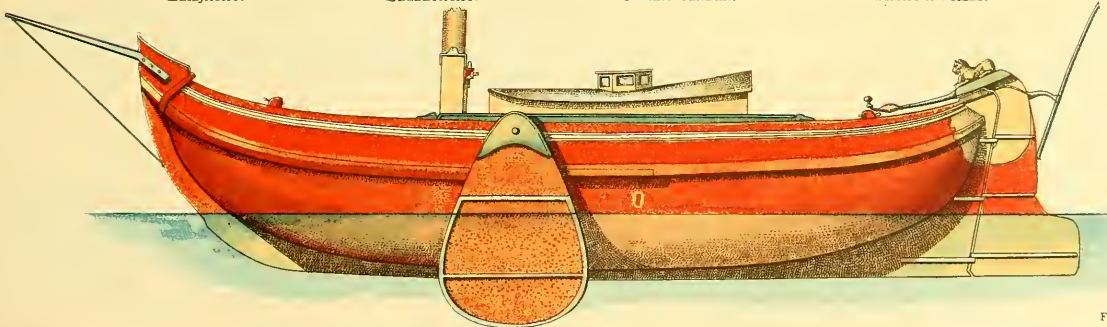
Fig. 89.

ZEILJACHT.

SEGELYACHT.

SAILING TENDER.

YACHT A VOILES.



Schaal Massstab 1 à 50 Scale Echelle

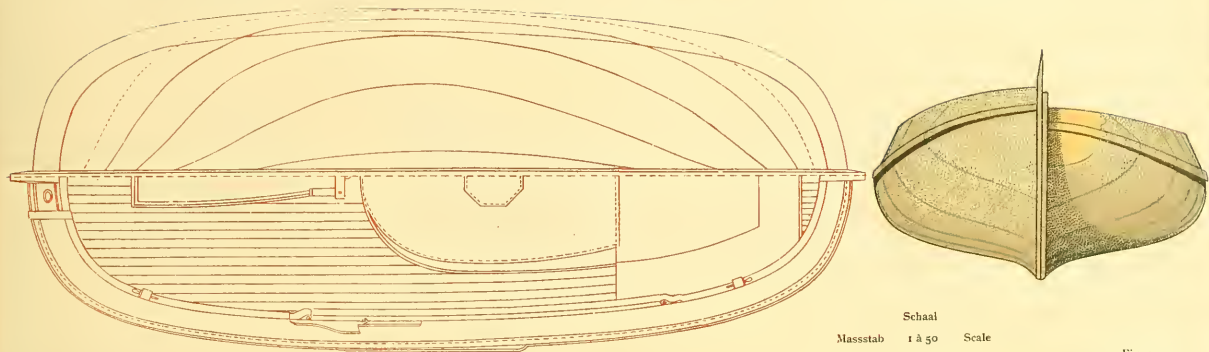
Fig. 90.

ZEILJACHT.

SEGELYACHT.

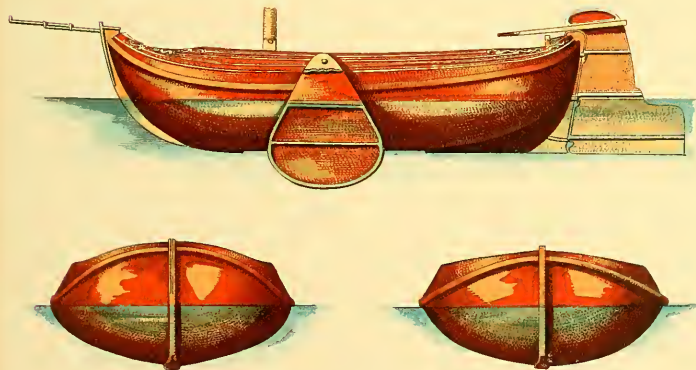
SAILING TENDER.

YACHT A VOILES.

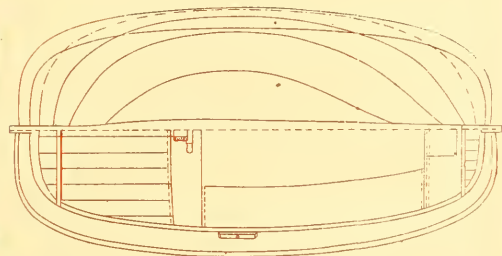


Schaal
 Massstab 1 à 50 Scale
 Echelle

Fig. 90.

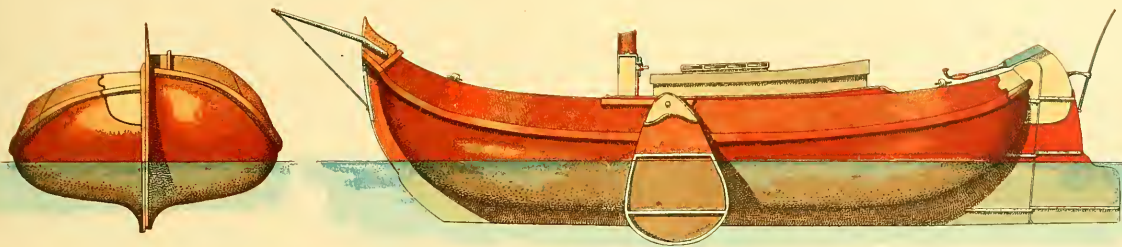


(FRIESLAND) « TJOTTER » (FRISE)



Schaal
 Massstab 1 à 50 Scale
 Echelle

Fig. 91.



BOEIER.

BUJER.

TENDER.

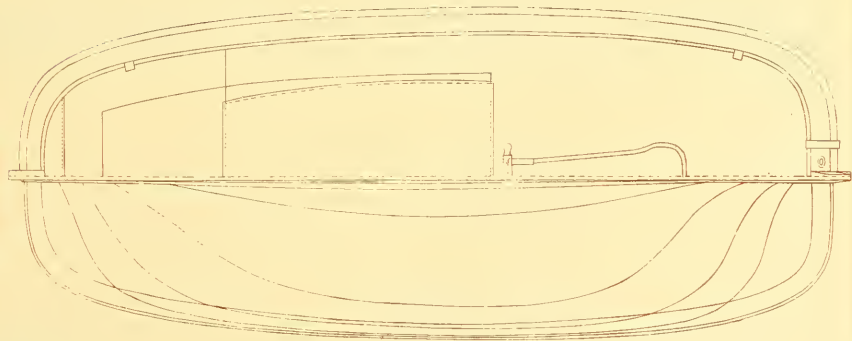
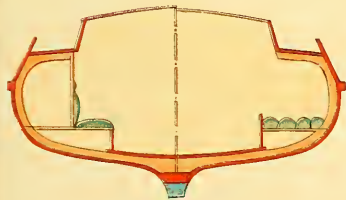
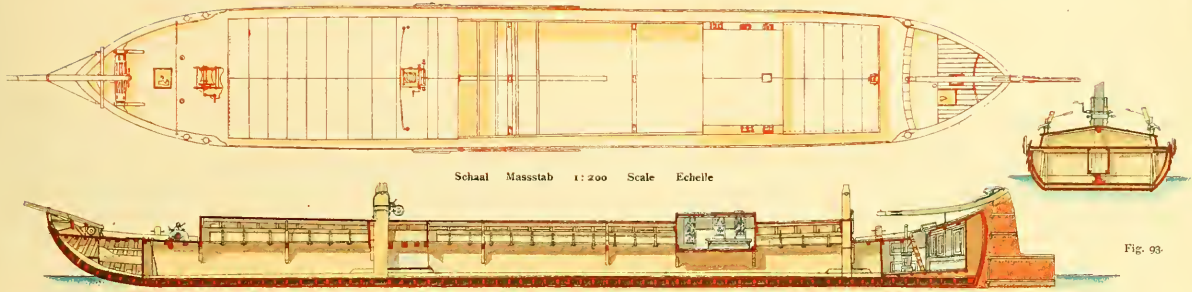


Fig 92.

DORSTENSCH E AAK.

AKE FROM DORSTEN.

AQUE DE DORSTEN.



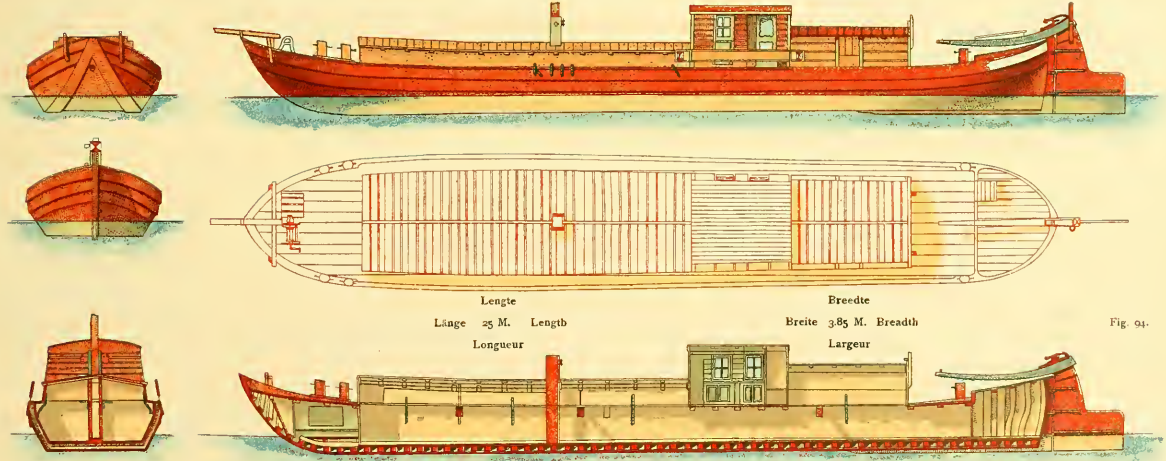
Schaal Massstab 1:200 Scale Echelle

Fig. 93.

NECKARA AAK.

AKE FROM THE NECKAR.

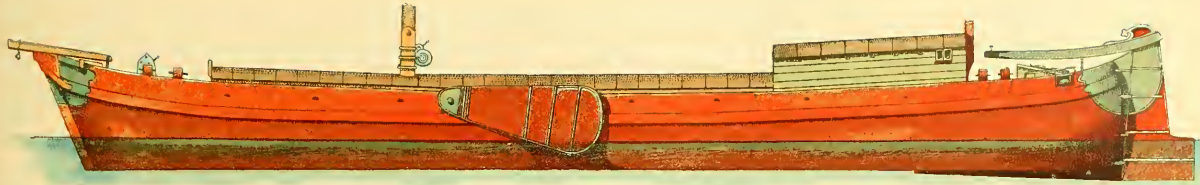
AQUE DU NECKAR.



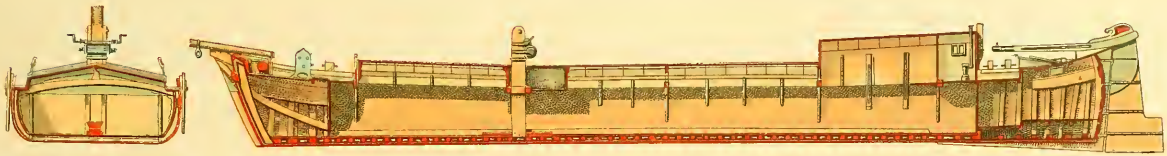
Länge 25 M. Length
Longueur

Breite 3.85 M. Breadth
Largeur

Fig. 94.



« STEVENSCHIP. »



Lengte
 Länge 31.85 M. Length
 Longueur

Breedte
 Breite 5.80 M. Breadth
 Largeur

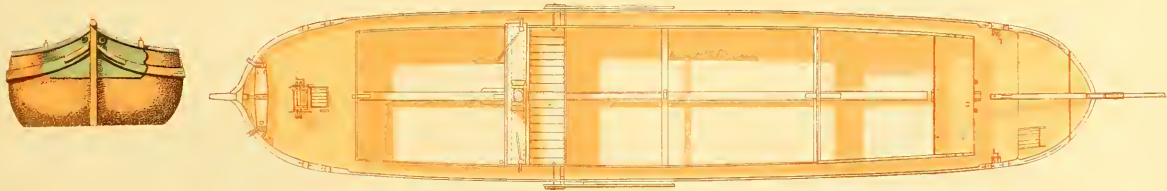


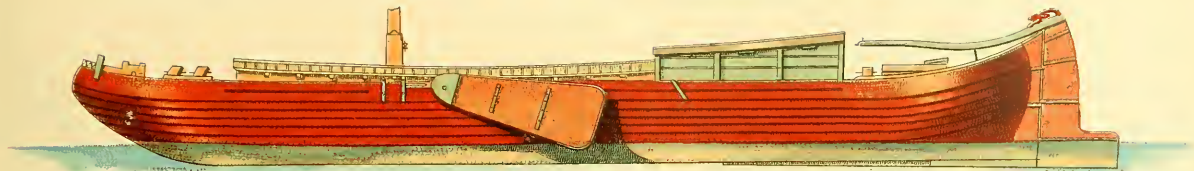
Fig. 95.

OVERBOORDIGE AAK.

AAK MIT ÜBERGREIFENDER BEPLANKUNG.

CLINKER BUILT AKE.

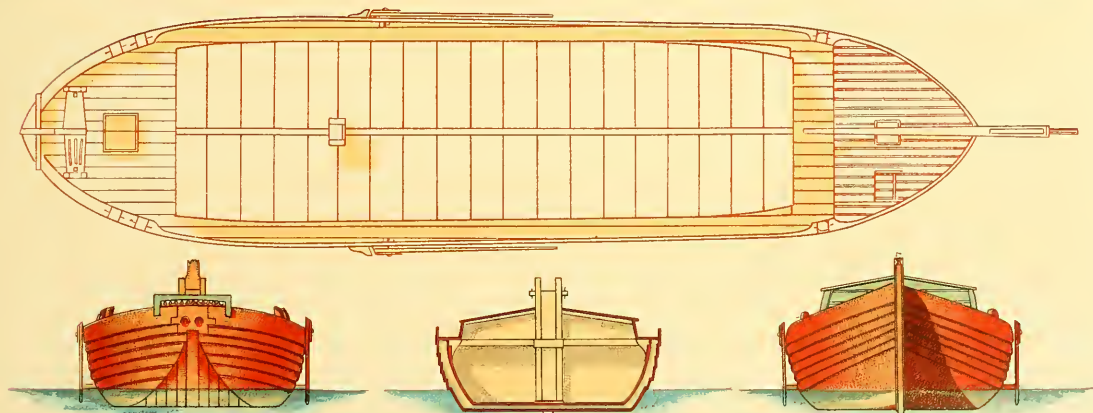
AQUE AVEC BORDAGE A CLIN.



Schaal Massstab 1:100 Scale Echelle



Fig. 96.



OVERBOORDIGE HOLLANDSCHE AAK.

HOLLANDISCHE AAK MIT ÜBERGREIFENDER BEPLANKUNG.

HOLLAND CLINKER BUILT AKE.

AQUE DE HOLLANDE, AVEC BORDAGE A CLIN.

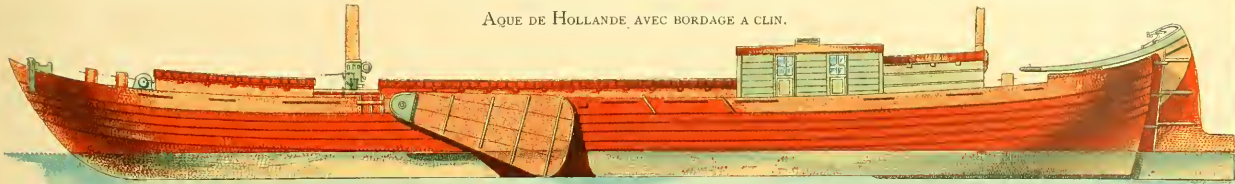
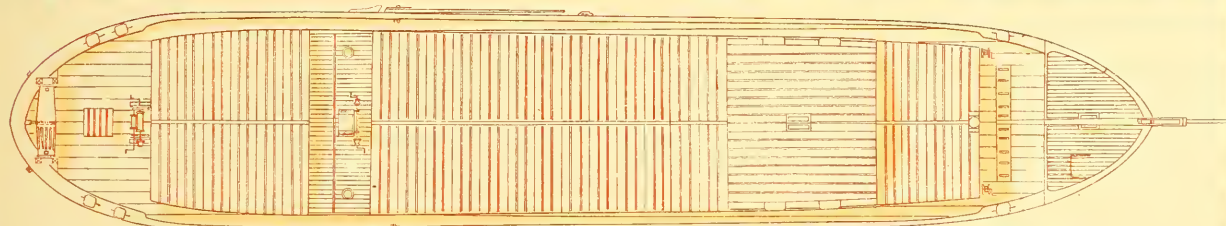
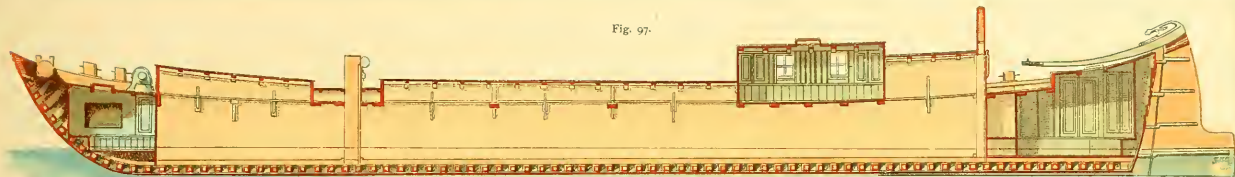
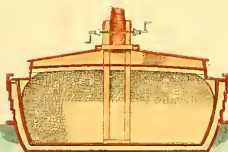
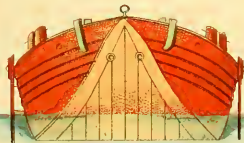


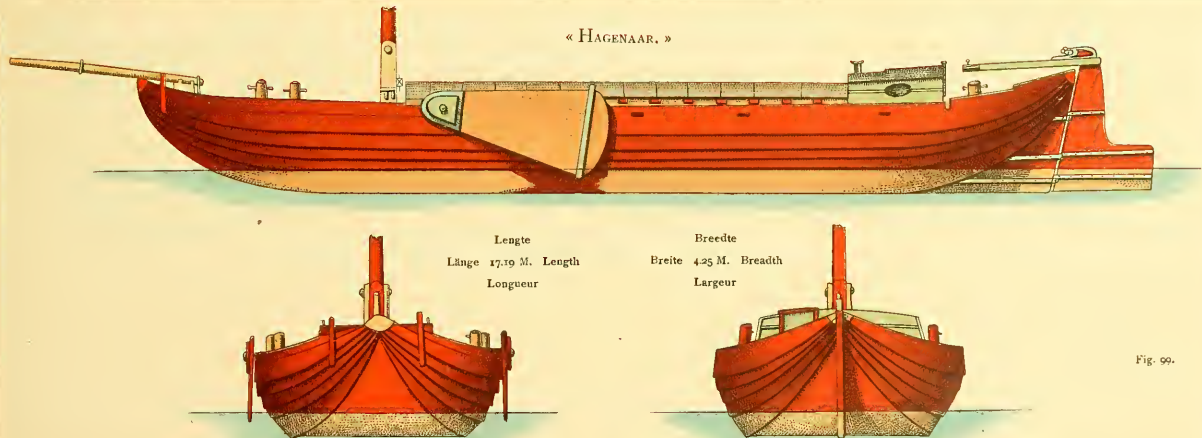
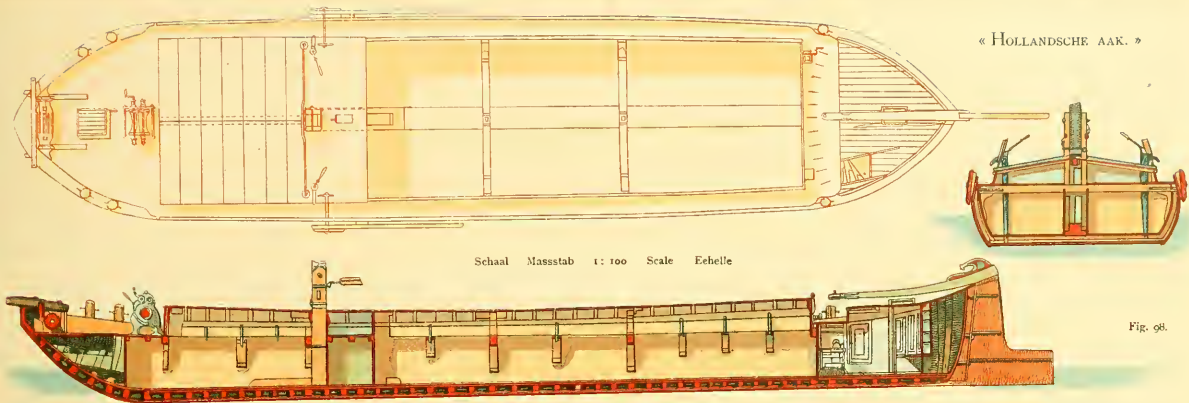
Fig. 97.



Länge
 Länge 32 M. Length
 Longueur

Breedte
 Breite 6 M. Breadth
 Largeur





HAGENAAR.

SCHIFF VOM HAAG.

BOAT FROM THE HAGUE

BATEAU DE LA HAYE.

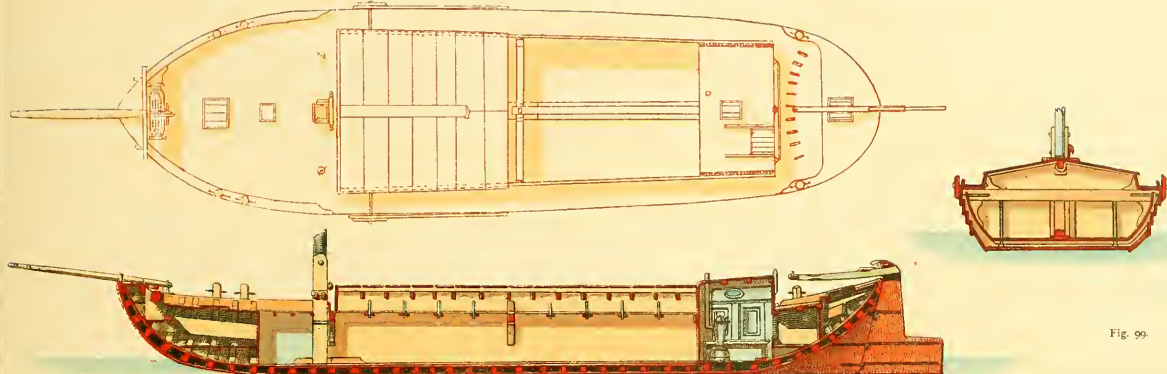
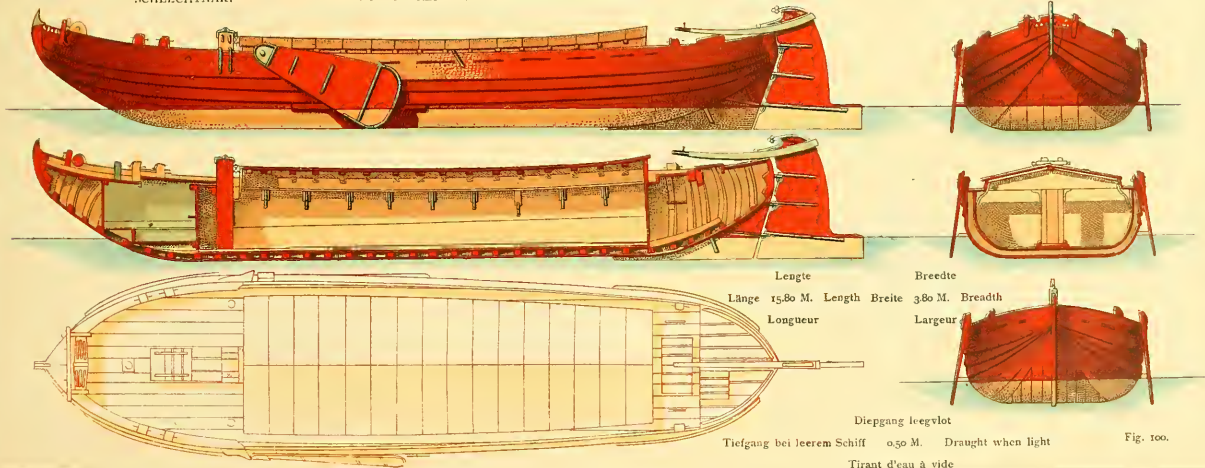


Fig. 99.

HOLLANDSCHE OVERBOORDIGE
SCHLECHTAAK.HOLLÄNDISCHE SCHLECHTAAK
MIT ÜBEREINANDERGREIFENDEN
PLANKEN.CLINKER BUILT
HOLLAND AKE.«SCHLECHTAAK» HOLLANDAIS
AVEC BORDAGE A CLIN.

Länge 15,80 M. Length 3,80 M. Breadth
 Longueur 0,50 M. Draught when light
 Tirant d'eau à vide

Diepgang loegvlot

Tiefgang bei leerem Schiff 0,50 M. Draught when light

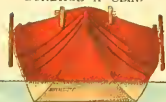
Tirant d'eau à vide

Fig. 100.

TURFIJKER (OVERBOORDIG)

TORFRAHN MIT ÜBEREINANDERGREFENDEN PLANKEN.

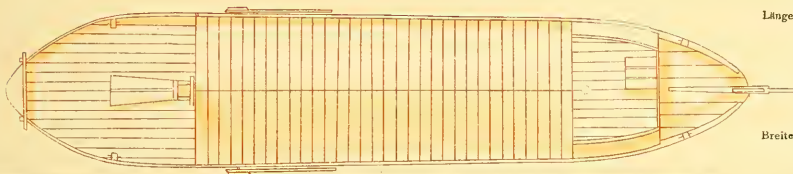
CLINKER BUILT TURFIJKER.

«TURFIJKER» AVEC
BORDAGE À CLIN.

Diepgaog leegvlot

Tiefgang bei leerem Schiff 0,33 M. Draught when light

Tirant d'eau à vide



Lengte

Länge 15,75 M. Length

Longueur

Breedte

Breite 3,15 M. Breadth

Largeur



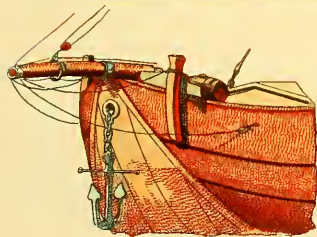
Fig. 101.

S'GRAVENMOERSCHE AAK.

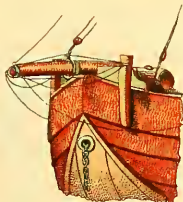
AAK von S'GRAVENMOER.

AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.



1



2

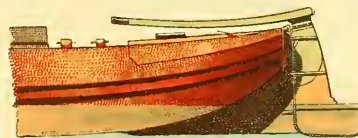


Fig. 102.

Vóór- en achtersoosicht
(Het klapbekken is vervaagen door een roer).Vorder- und Hinteansicht
(Das Klappbeck ist durch ein Steuerruder
ersetzt).Front and rear views
(The « klapbekken » is replaced
by a rudder).Vue de face et vue postérieure
(Le « klapbekken » est remplacé par un gouvernail).

s'GRAVENMOERSCHE AAK.

AAK VON S'GRAVENMOER.

AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.

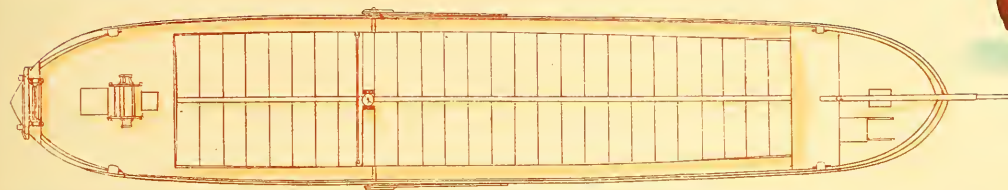
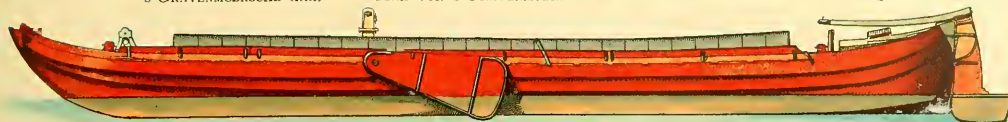


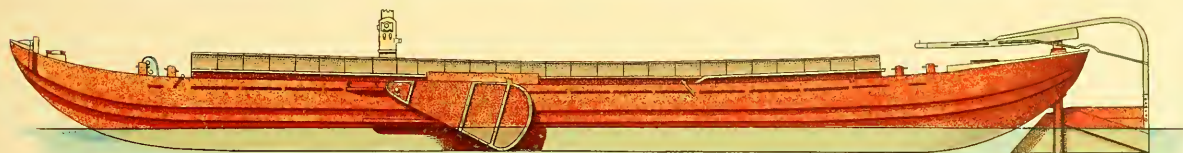
Fig. 103.

s'GRAVENMOERSCHE AAK.

AAK VON S'GRAVENMOER.

AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.



Lengte

Länge 27,10 M. Lenght

Longueur

Breedte

Breite 5,40 M. Breadth

Largeur

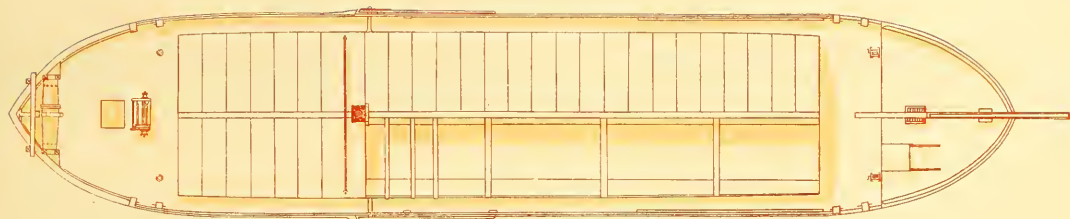


Diepgang leegvlot

Tiefgang bei leerem Schiff 0,56 M. Draught when light

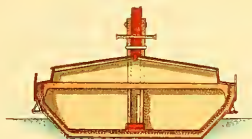
Tirant d'eau à vide

Fig. 104.



s'GRAVENMOERSCHE AAK.

AAK VON S'GRAVENMOER.



AKE FROM S'GRAVENMOER.

AQUE DE S'GRAVENMOER.

Fig. 104.

« KEEN. »

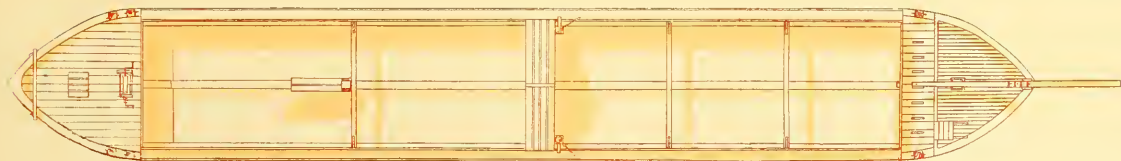


Fig. 105.

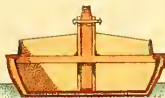
« KEEN. »



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.40 M. Draught when light
Tirant d'eau à vide



Lengte
Länge 42 M. Length
Longueur



Breedte
Breite 6 M. Breadth
Largeur

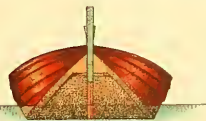
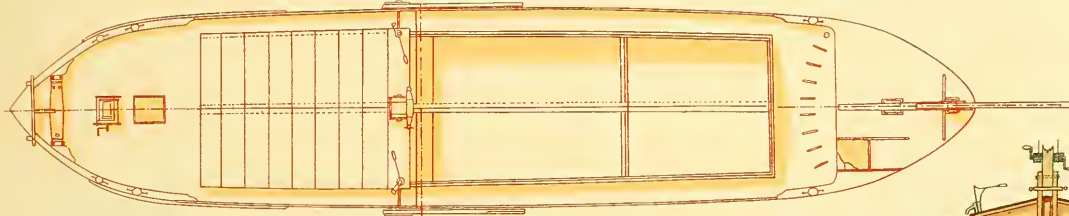


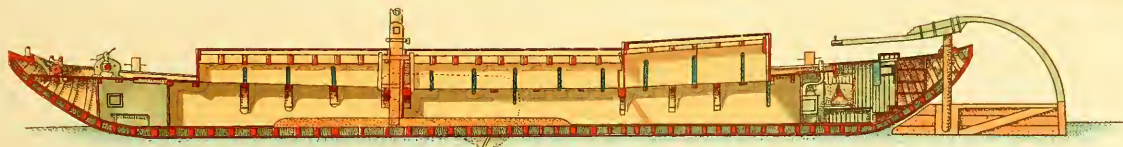
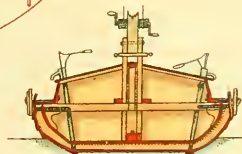
Fig. 105.

(OUD MODEL ALTES MODELL. « KEEN. » OLD MODEL. ANCIEN MODELE.)



Lengte
Länge 22.65 M. Length
Longueur

Breedte
Breite 4.63 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.35 M. Draught when light
Tirant d'eau à vide

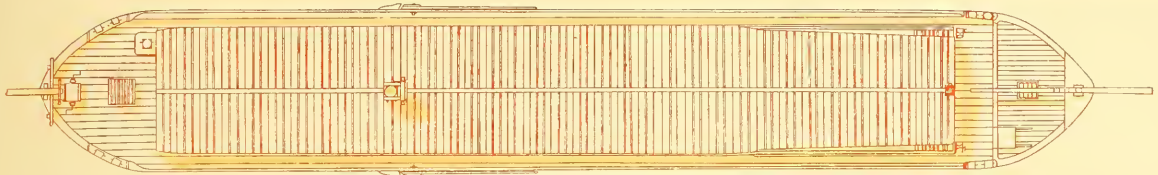
Fig. 106.

« KEENAK. »



Lengte
Länge 36.45 M. Length
Loogeur

Breedte
Breite 5.56 M. Breadth
Largeur



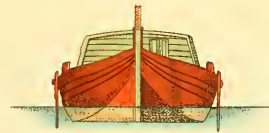
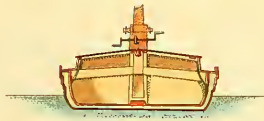
Diepgang leegvlot

Tiefgang bei leerem Schiff 0.50 M. Draught when light

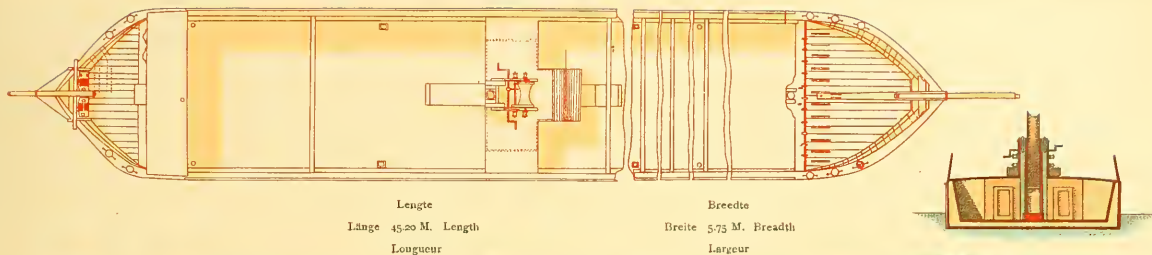
Tirant d'eau à vide



Fig. 107.



« SLOF. »



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.40 M. Draught when light
Tirant d'eau à vide

Fig. 108.

OVERDEKTE AAK.

GEDECKTE AAK.

COVERED AKE.

AQUE COUVERTE D'ÉCOUTILLES.



Lengte
Länge 40.67 M. Length
Longueur

Breedto
Breite 5.65 M. Breadth
Largcur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.47 M. Draught when light
Tirant d'eau à vide

Fig. 109.

OVERDEKTE AAK.

GEDEKTE AAK.

COVERED AKE.

AQUE COUVERTE D'ECOUTILLES.

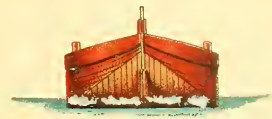
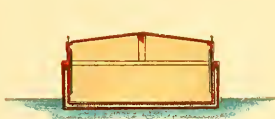
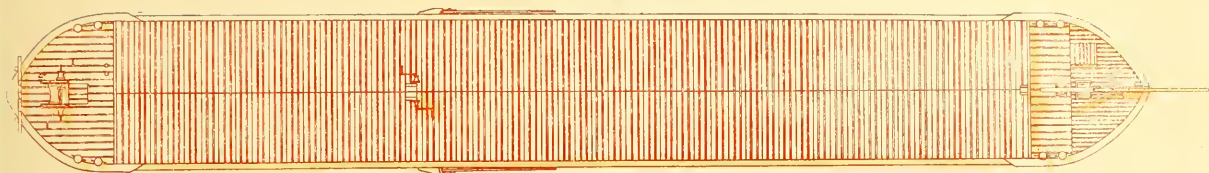
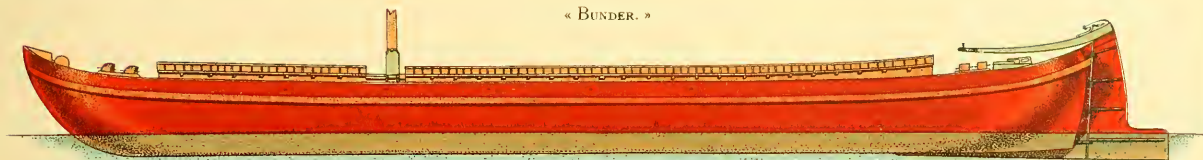


Fig. 109.

« BUNDER. »



Länge
Länge 34 M. Length
Longueur

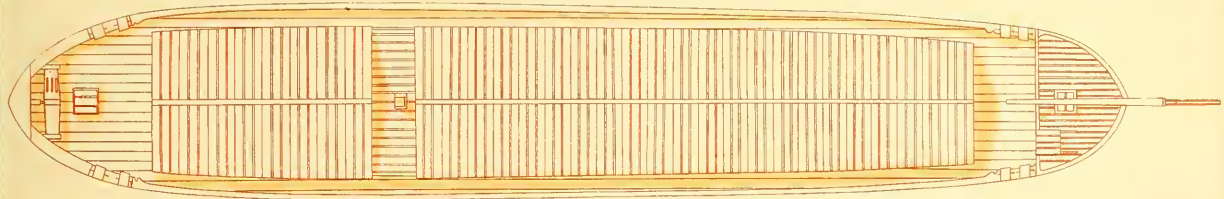
Breedte
Breite 6 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.70 M. Draught when light
Tirant d'eau à vide

Fig. 110.

« BUNDER. »



Länge
 Länge 34 M. Length
 Longueur

Breite
 Breite 6 M. Breadth
 Largeur



Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.70 M. Draught when light
 Tirant d'eau à vide

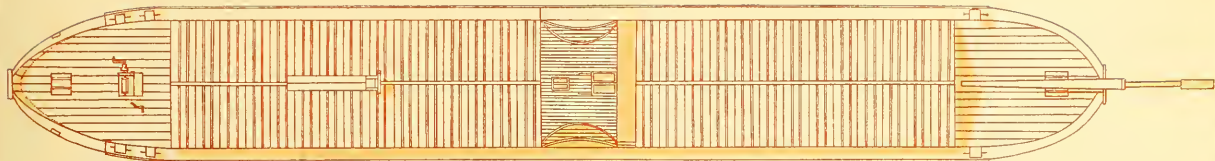
Fig. 110.

« HERNÄ. »



Fig. 111.

« HERNA. »



Länge
35 M. Length
Longueur

Breedte
5 M. Breadth
Largeur

Diepgang leeglot
Tiefgang bei leerem Schiff 0.40 M. Draught when light
Tirant d'eau à vide

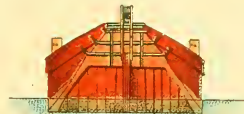
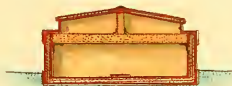
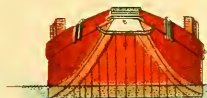
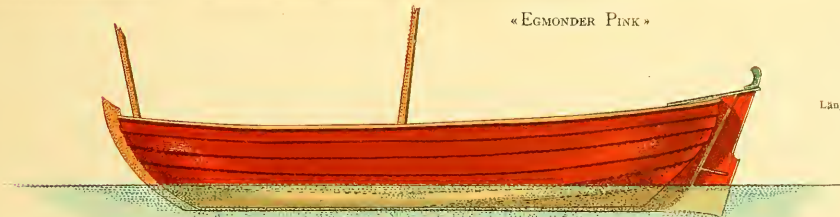


Fig. 111.

« EGMONDER PINK »



Länge
9.80 M. Length
Longueur

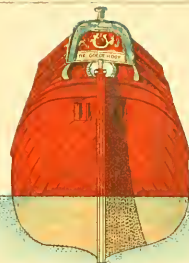
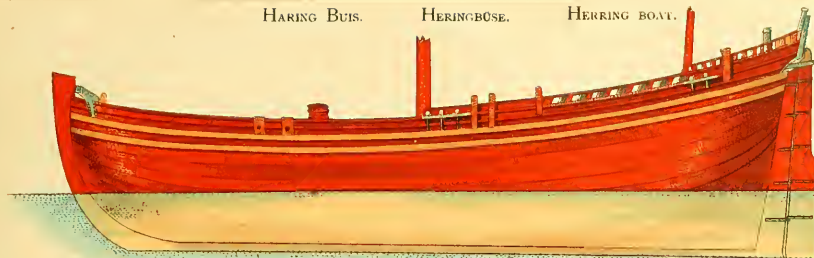
Breedte
3.35 M. Breadth
Largeur



Diepgang leeglot
Tiefgang bei leerem Schiff 0.30 M. Draught when light
Tirant d'eau à vide

Fig. 112.

HARING BUIS. HERINGBÖSE. HERRING BOAT.



Lengte	Breedte	Diepgang leeglot
Länge 14.56 M. Length	Breite 4.04 M. Breadth	Tiefgang bei leerem Schiff 1.12 M. Draught when light
Longueur	Largeur	Tirant d'eau à vide

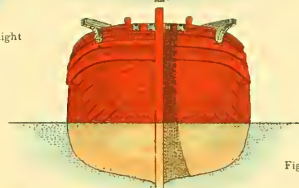


Fig. 113.

VISCHHOEKER. FISCHERHÜCKER. FISH HOWKER. HOURQUE DE PÊCHE.

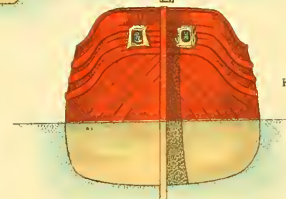
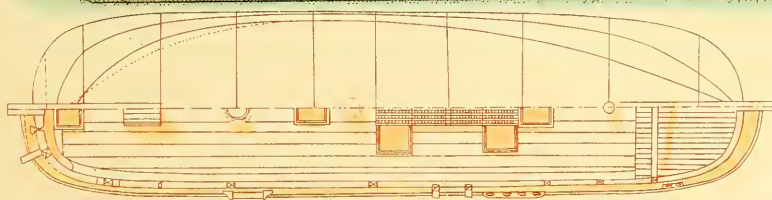
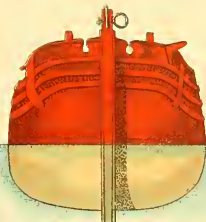
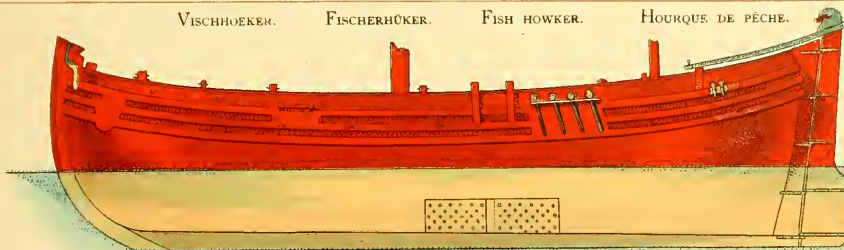
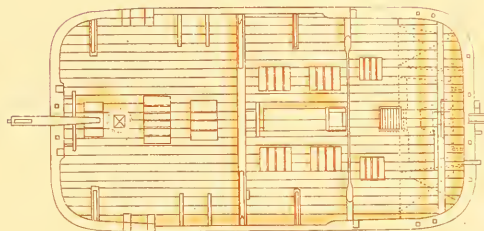
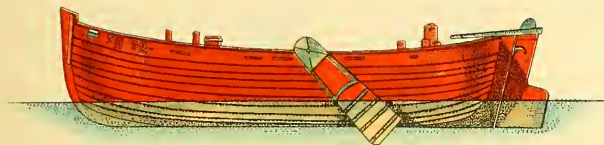


Fig. 114.

« Bom. »

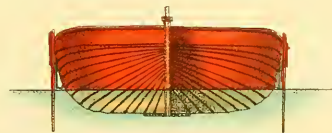
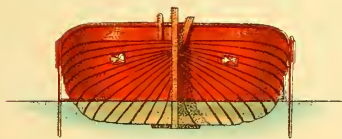


Länge

Länge 12 M. Length
Longueur

Breedte

Breedte 6 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 1.80 M. Draught when light
Ti ant d'eau à vide

GARNALEN SCHUITJE.



KRABBFISCHEREIBARKE.



SHRIMPER.



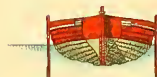
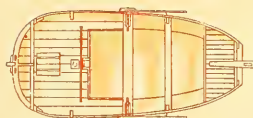
BARQUE DE PÊCHE AUX CREVETTES.



Lengte

Länge 7.10 M. Length
Longueur

Breedte

Breite 3.20 M. Breadth
Largeur

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.90 M. Draught when light
Tirant d'eau à vide

Fig. 116.

GARNALEN SCHUITJE MET BUN.

KRABBFISCHEREIBARKE
MIT FISCHKASTEN.

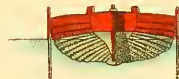
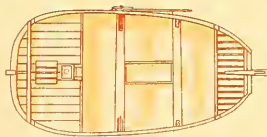
SHRIMPER WITH WATER WELL.

BARQUE DE PÊCHE AUX CREVETTES
AVEC BANNETON.

Lengte

Länge 7.50 M. Length
Longueur

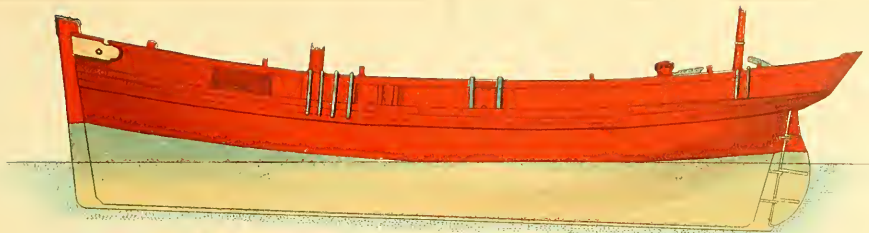
Breedte

Breite 3.85 M. Breadth
Largeur

Diepgang leegvlot

Tiefgang bei leerem Schiff 0.90 M. Draught when light
Tirant d'eau à vide

Fig. 117.



« LOGGER. »



Lengte
Lange 21.75 M. Length
Longueur

Breëte
Breite 6 M. Breadth
Largeur

Diepgang leegvlot

Teilgang bei leerem Schiff 2 M. Draught when light

Tirant d'eau à vide

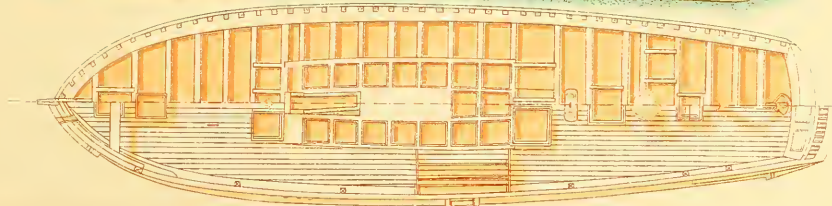
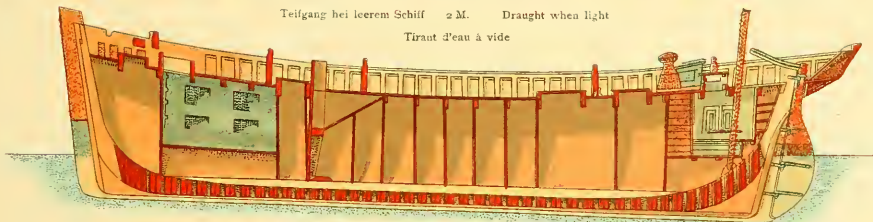


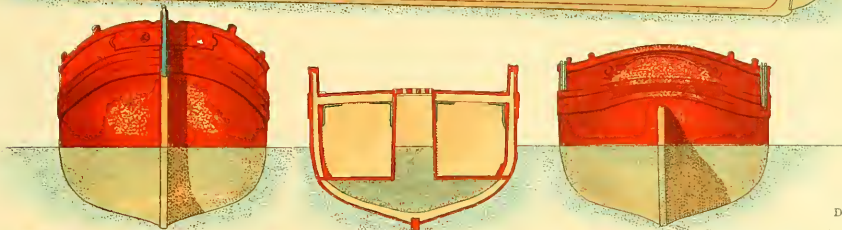
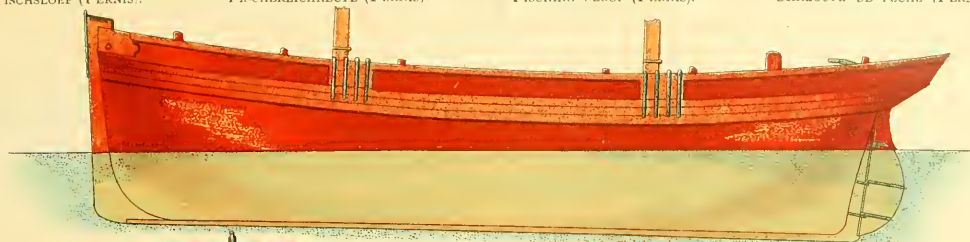
Fig. 118.

VISCHSLOEP (PERNIS).

FISCHEREICHALUPE (PERNIS).

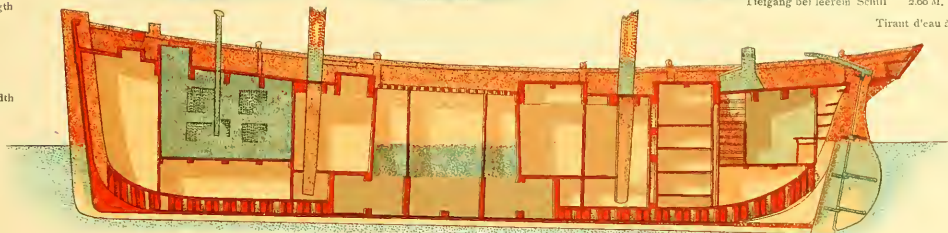
FISCHING SLOOP (PERNIS).

CHALOUPE DE PÊCHE (PERNIS).



Länge
 Länge 22.60 M. Length
 Longueur

Breedte
 Breite 3.95 M. Breadth
 Largeur



Diepgang leegvlot
 Tiefgang bei leerem Schiff 2.60 M. Draught when light
 Tirant d'eau à vide

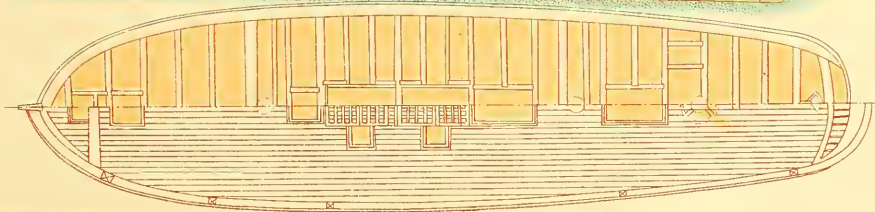
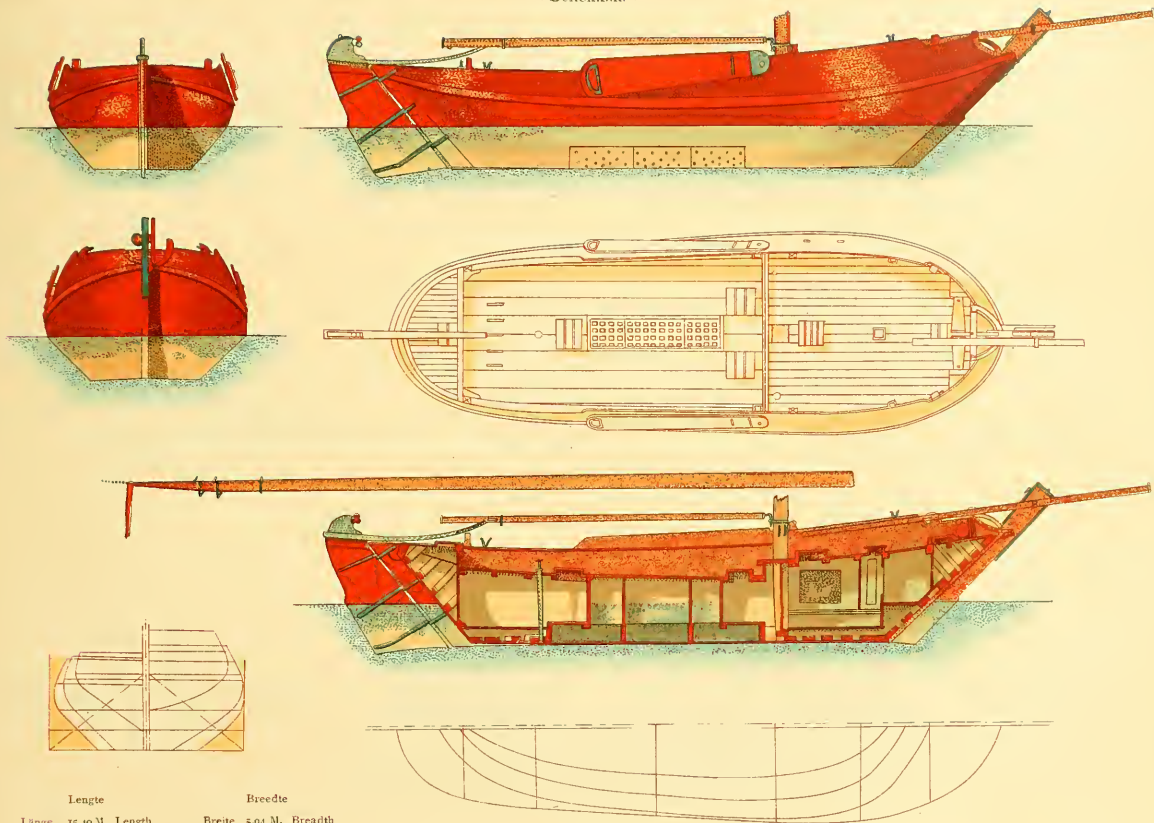


Fig. 119.

« SCHOKKER. »



Lengte

Breedte

Länge 15,40 M. Length

Breite 5,04 M. Breadth

Longueur

Largeur

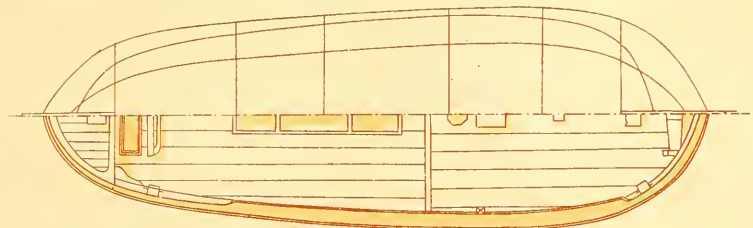
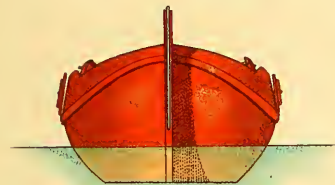
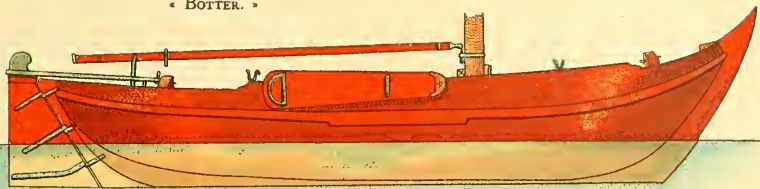
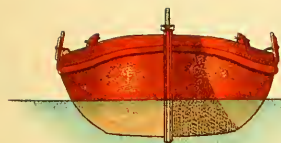
Diepgang leegvlot

Tiefgang bei leerem Schiff 0,98 M. Draught when light

Tirant d'eau à vide

Fig. 120.

« BOTTER. »



Länge
Länge 15.40 M. Length
Longueur

Breedte
Breite 5 M. Breadth
Largeur

Diepgang leeglot
Tiefgang bei leerem Schiff 1 M. Draught when light
Tirant d'eau à vide

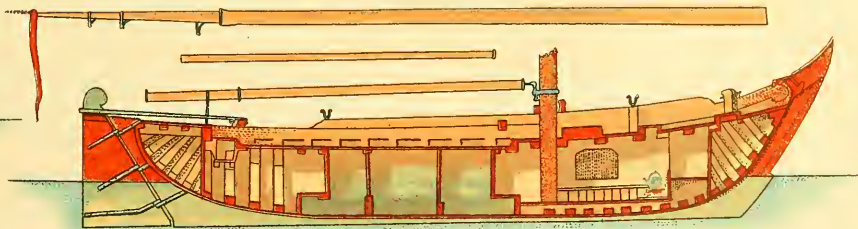


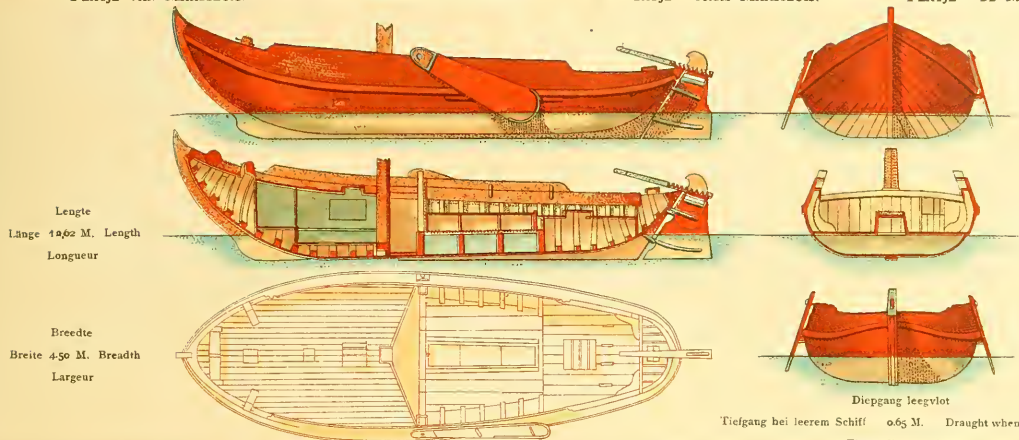
Fig. 121.

PLATJE VAN MAASSLUIJ.

PLATTSCHIFF VON MAASSLUIJ.

« PLATJE » FROM MAASSLUIJ.

« PLATJE » DE MAASSLUIJ.



Lengte

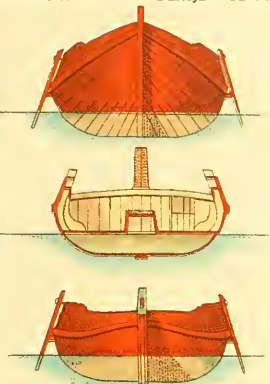
Länge 12,62 M. Length

Longueur

Breedte

Breite 4,50 M. Breadth

Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0,65 M. Draught when light

Tirant d'eau à vide

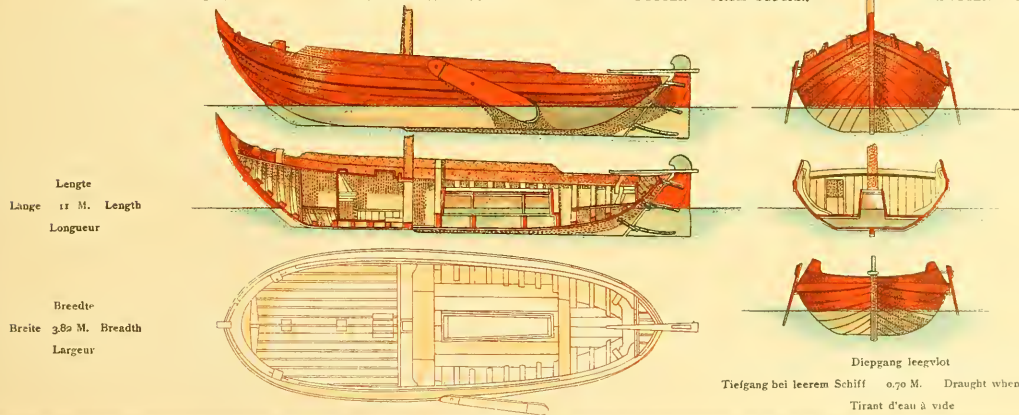
Fig. 122.

HOORNSCHE BOTTER.

BOTTER VON HOORN.

« BOTTER » FROM HOORN.

« BOTTER » DE HOORN.



Lengte

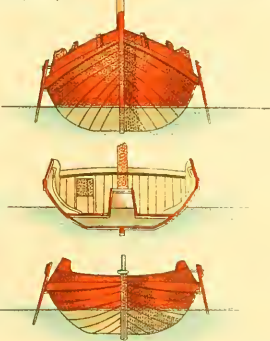
Länge 11 M. Length

Longueur

Breedte

Breite 3,82 M. Breadth

Largeur



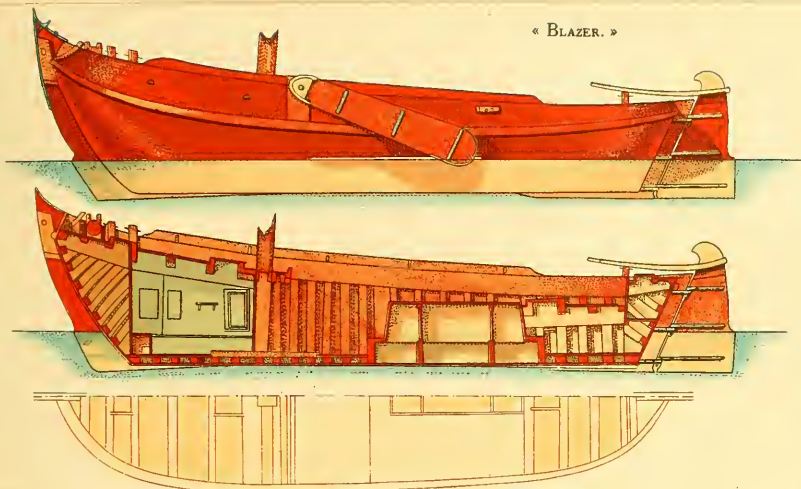
Diepgang leegvlot

Tiefgang bei leerem Schiff 0,70 M. Draught when light

Tirant d'eau à vide

Fig. 123.

« BLAZER. »



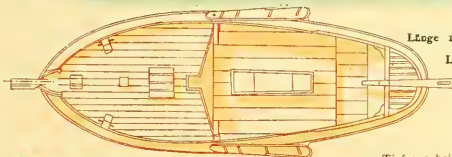
Länge	Breedte
Länge 14.42 M. Length	Breite 5.22 M. Breadth
Longueur	Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 1.05 M. Draught when light
Tirant d'eau à vide

Fig. 124.

« SCHOKKER » (ZUIDERZEE)



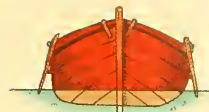
Länge	Breedte
Länge 11.25 M. Length	Breite 3.90 M. Breadth
Longueur	Largeur

Diepgang leegvlot
Tiefgang bei leerem Schiff 0.60 M. Draught when light
Tirant d'eau à vide



Fig. 125.

« KUBBOOT. »



Leugte
Länge 5.55 M. Length
Langueur

Diepgang leegvlot
Tiefgang bei leerem Schiff 0.30 M. Draught when light
Tirant d'eau à vide



Breedte
Breite 1.80 M. Breadth
Largeur

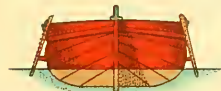
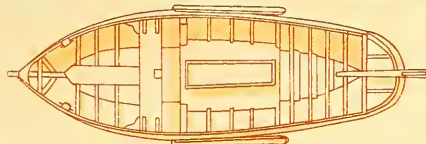
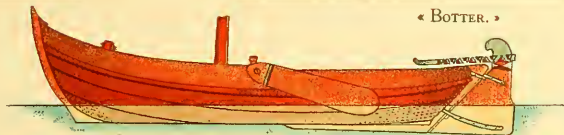


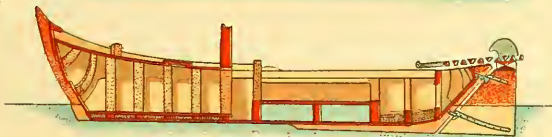
Fig. 126.

« BOTTER. »



Leugte
Länge 6.12 M. Length
Langueur

Diepgang leegvlot
Tiefgang bei leerem Schiff 0.40 M. Draught when light
Tirant d'eau à vide



Breedte
Breite 2.20 M. Breadth
Largeur

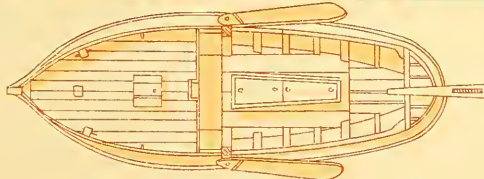


Fig. 127.

« LEMMERJACHT. »

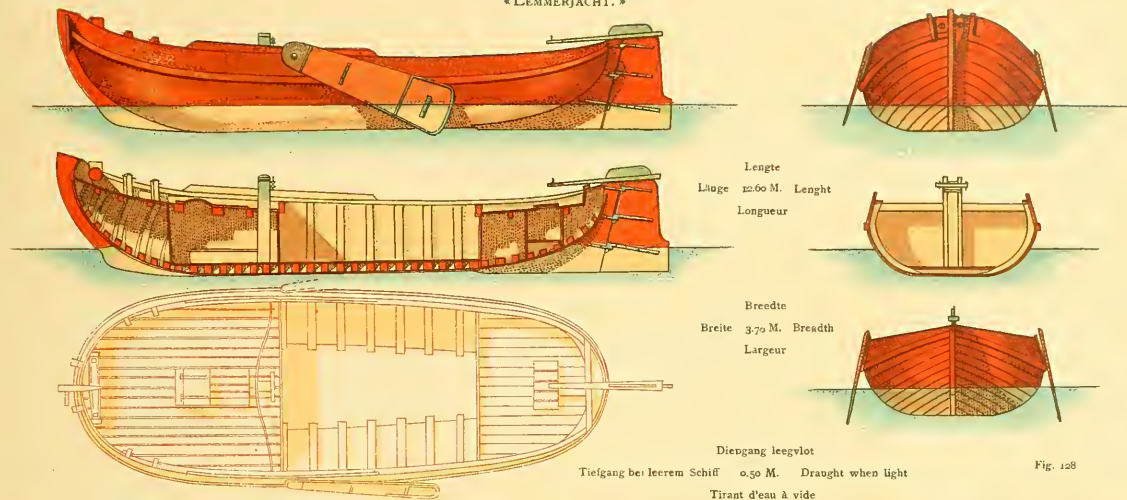


Fig. 128

« BOLLE » (BOLLETJE)

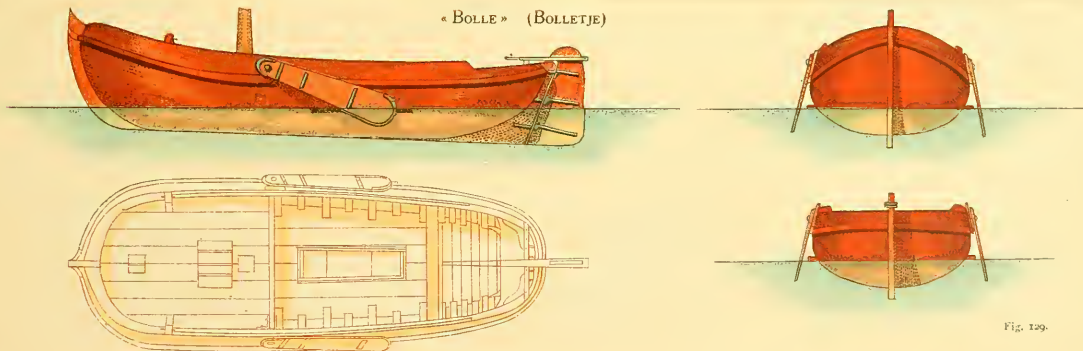


Fig. 129.

Lengte
Länge 9.37 M. Length
Loogeur

Breedte
Breite 3.10 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.65 M. Draught when light
Tirant d'eau à vide

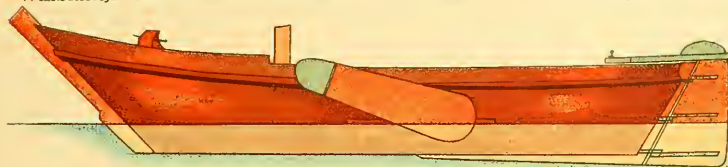
Fig. 129.

WIERSCHUITJE VAN WIERINGEN.

WIERSCHUTE VON WIERINGEN.

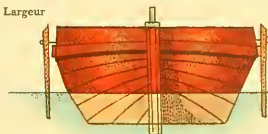
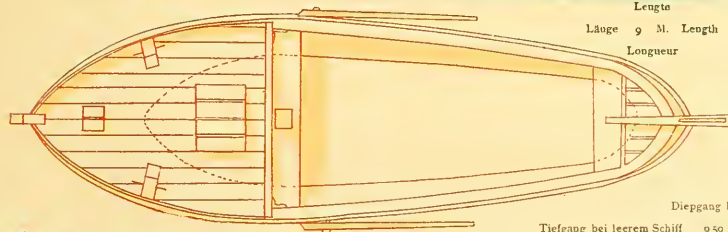
« WIERSCHUITJE » FROM WIERINGEN.

« WIERSCHUITJE » DE WIERINGEN.



Lengte
Länge 9 M. Length
Loogeur

Breedte
Breite 2.05 M. Breadth
Largeur



Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide

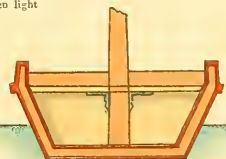
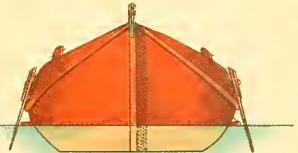
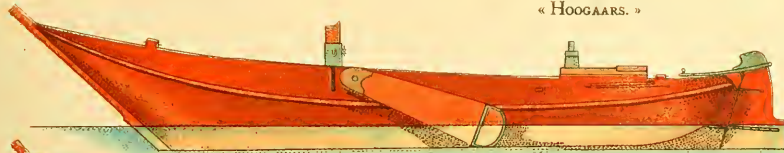


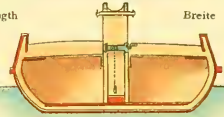
Fig. 130.

« HOOGAARS. »



Leugte
Länge 16.05 M. Length
Longueur

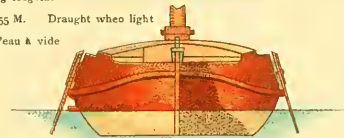
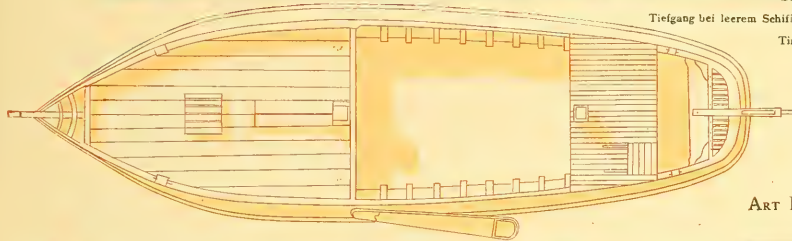
Breedte
Breite 4.50 M. Breadth
Largeur



Diepgang leegvat

Tiefgang bei leerem Schiff 0.55 M. Draught when light

Tirant d'eau à vide



BOEIERMODEL.

ART BUJER. BOVER TYPE.

TYPE DU BOVER.

Fig. 131.

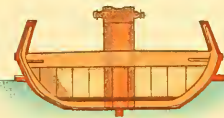
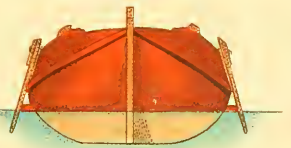
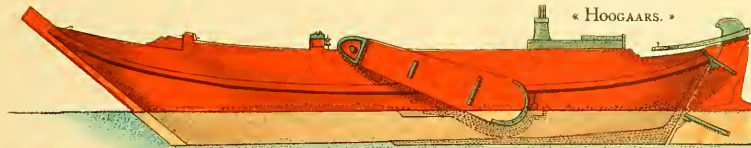


Fig. 132.

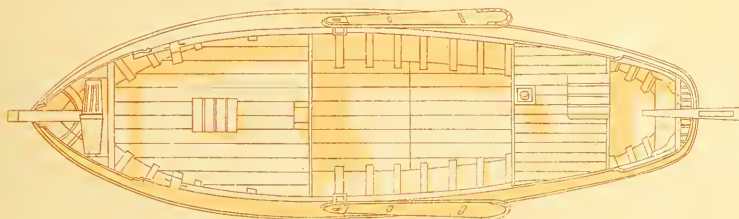


Fig. 132.

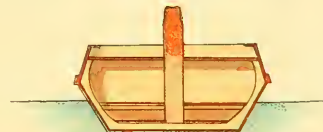
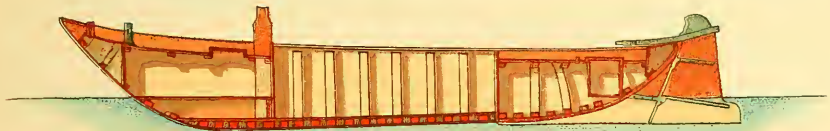
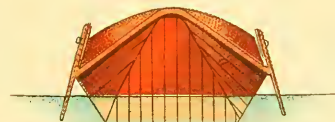
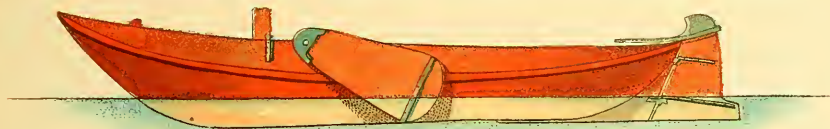
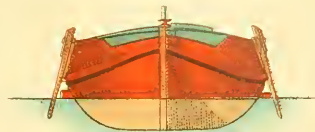
Lengte	Breedte	Diepgang leegvlot
Länge 15. M. Length	Breite 4. M. Breadth	Tiefgang bei leerem Schiff 0.50 M. Draught when light
Longueur	Largeur	Tirant d'eau à vide

THOLENSCHE SCHOUW.

« SCHOUW » VON THOLEN.

« SCHOUW » FROM THOLEN.

OUD MODEL.
 ALTES MODELL. OLD MODEL.
 ANCIEN MODELE.



Lengte	Breedte
Länge 11.46 M. Length	Breite 3.30 M. Breadth
Longueur	Largeur

Diepgang leegvlot
Tiefgang bei leerem Schiff 0.50 M. Draught when light
Tirant d'eau à vide

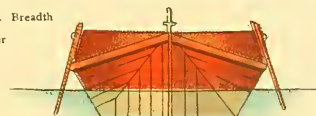
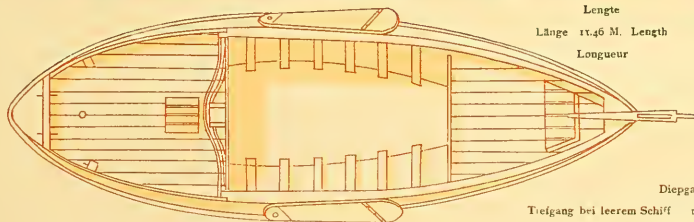


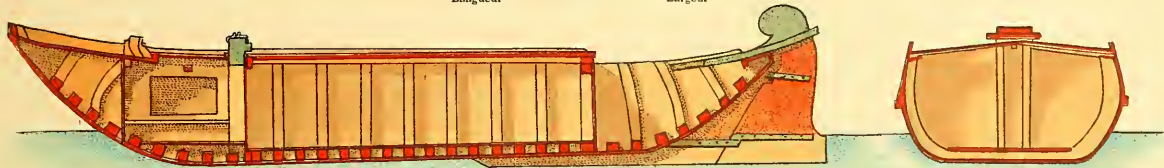
Fig. 133.

« BEIERLANDSCHE SCHUIT. »



Länge
 Länge 9.55 M. Length
 Longueur

Breite
 Breite 2.75 M. Breadth
 Largeur



Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.37 M. Draught when light
 Tirant d'eau à vide

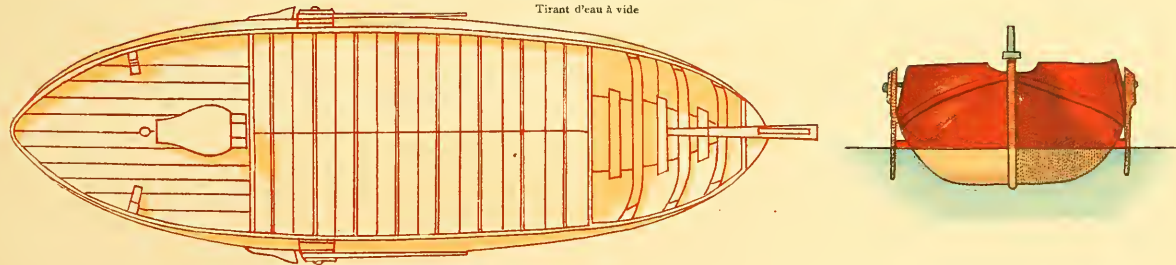


Fig. 134.

« KNOTS. »

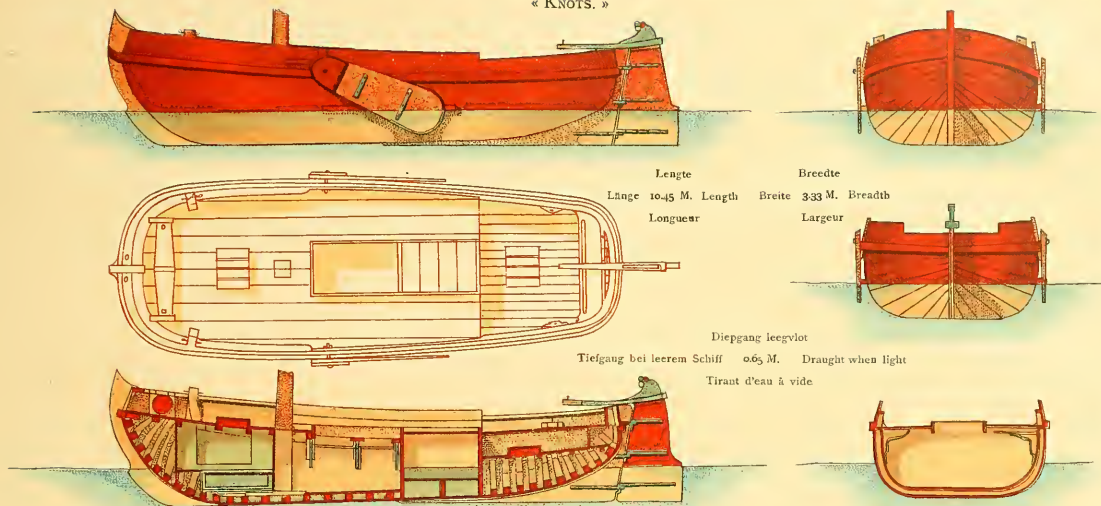


Fig. 135.

« STEEKSCUIT. »

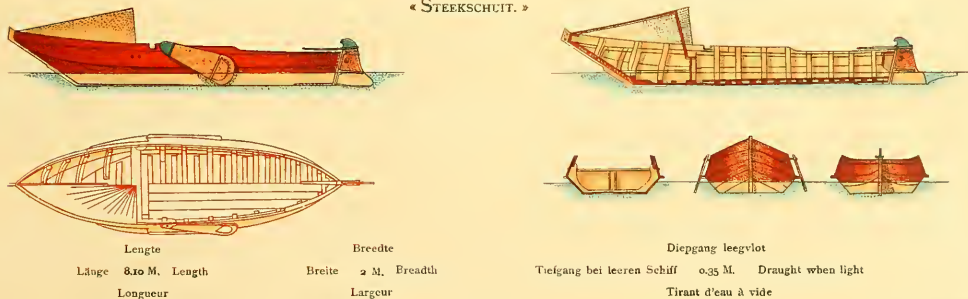
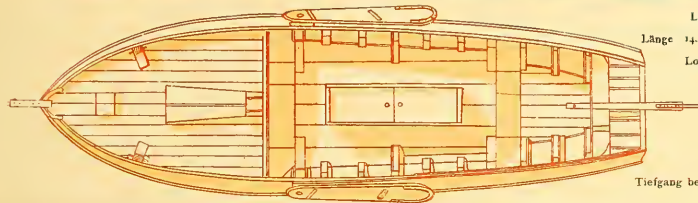
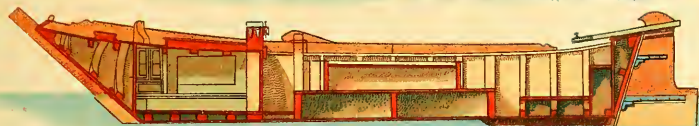
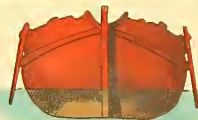


Fig. 136.



« VISC HGONDEL »



Lengte
Länge 14,20 M. Length
Longueur
Breite
Breite 3,80 M. Breadth
Largeur

Diepgang leegvlot

Tiefgang bei leerem Schiff 0,60 M. Draught when light

Tirant d'eau à vide

Fig. 137.

VISCHSCHUIT (ALSMEER).

FISCHERBARKE (ALSMEER).

FISCHING VESSEL (ALSMEER).

BARQUE DE PÊCHE (ALSMEER)



Lengte
Länge 9,70 M. Length
Longueur
Breite
Breite 2,94 M. Breadth
Largeur

Lengte
Länge 11,50 M. Length
Longueur
Breite
Breite 3,60 M. Breadth
Largeur

Lengte
Länge 11,50 M. Length
Longueur
Breite
Breite 2,94 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0,60 M. Draught when light
Tirant d'eau à vide

Diepgang leegvlot

Tiefgang bei leerem Schiff 0,65 M. Draught when light
Tirant d'eau à vide

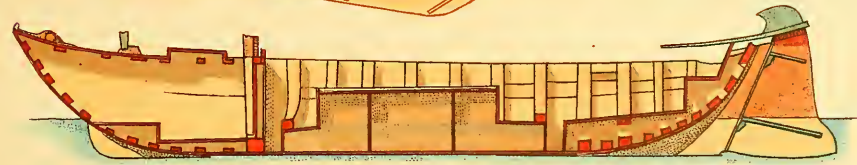
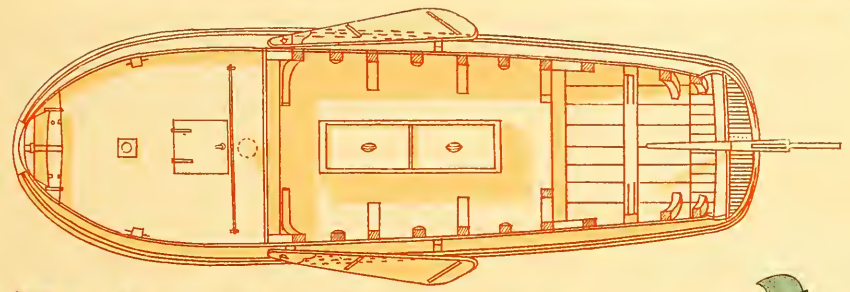
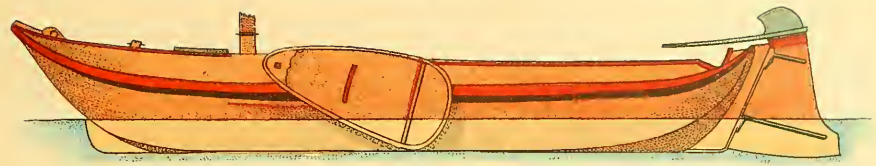
Diepgang leegvlot

Tiefgang bei leerem Schiff 0,65 M. Draught when light
Tirant d'eau à vide



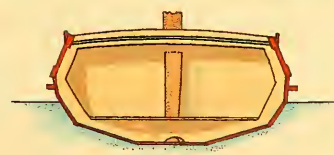
Fig. 138.

« BOEIERAAK. »



Lengte
 Länge 10.40 M. Length
 Longueur

Breedte
 Breite 2.98 M. Breadth
 Largeur



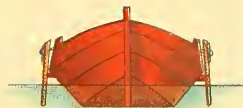
Diepgang leegvlot
 Tiefgang bei leerem Schiff 0.50 M. Draught when light
 Tirant d'eau à vide

Fig. 139.

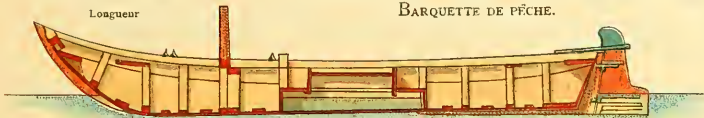


Lengte
Länge 8.10 M. Length
Longueur

VISCHSCHUITJE.
FISCHERBARKE. (WOUDRICHEM) SMALL FISHING VESSEL
BARQUETTE DE PÊCHE.



Breedte
Breite 1.90 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.30 M. Draught when light

Tirant d'eau à vide

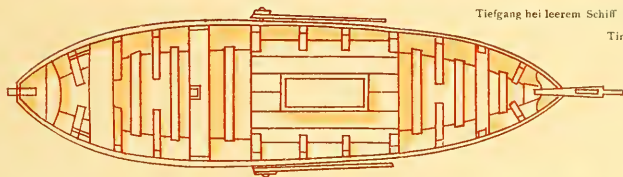


Fig. 140.

« PUNTER. »



Schaal
à 100 Scale
Echelle



Fig. 141.

« PRIKSCHUIT. »



Lengte
Länge 7.80 M. Length
Longueur

Breedte
Breite 2.02 M. Breadth
Largeur



Diepgang leegvlot

Tiefgang bei leerem Schiff 0.30 M. Draught when light

Tirant d'eau à vide

Fig. 142.

« PUNTER. »



Fig. 143.

« STROOPERSCHUITJE. »



Schaal
 Massstab 1 à 20 Scale
 Echelle

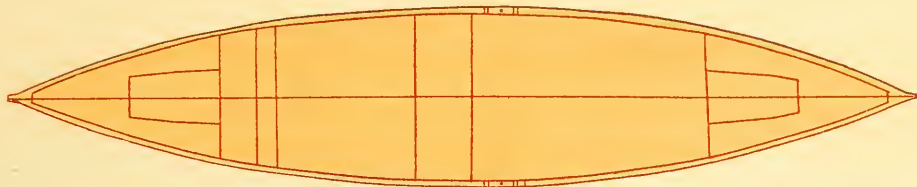


Fig. 143.



« VIEGER. »



Schaal
 Massstab 1 à 100 Scale
 Echelle



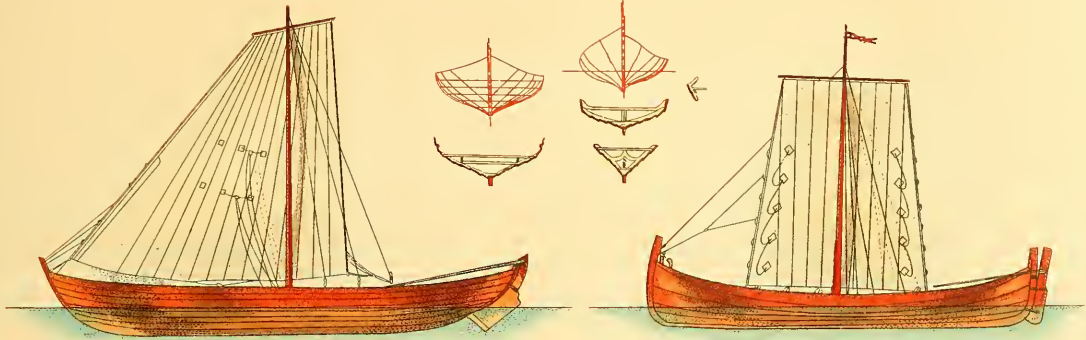
Fig. 144.

TUIGEN.

TAKELUNG.

RIG.

GRÉEMENTS.

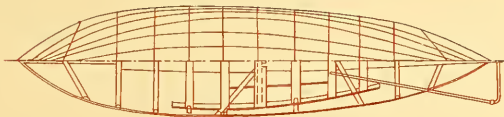


VISSCHERSVAARTUIGEN.

FISCHEREIFAHRZÜGE

FISHING VESSELS.

BATEAUX DE PÊCHE.



NOORWEGEN.

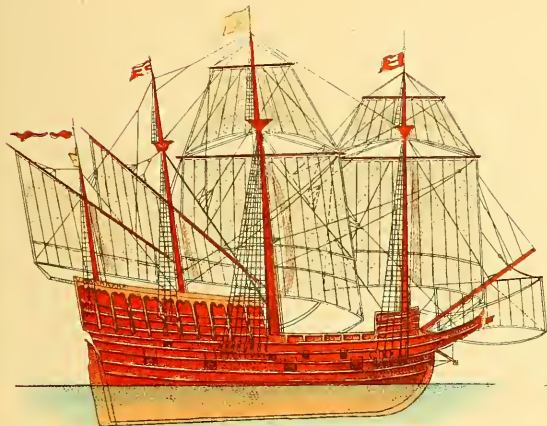
NORWEGEN.

NORWAY.

NORVÈGE.

Fig. 145.

16^e EEUW.
16. JAHRHUNDERT. 16TH CENTURY
16^e SIECLE.

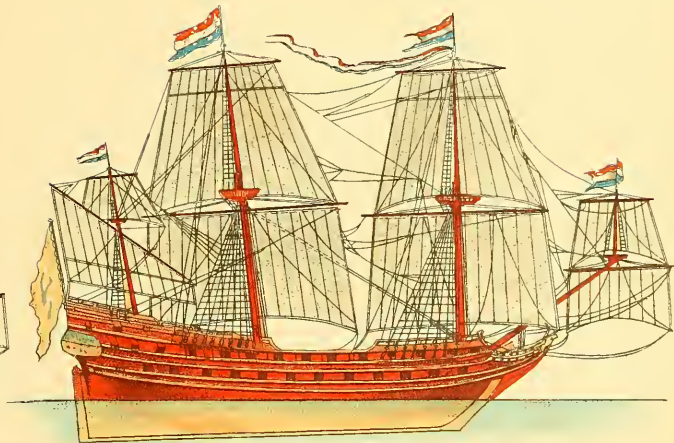


1450

NEDERLAND.

NIEDERLANDE.

17^e EEUW.
17. JAHRHUNDERT. 17TH CENTURY.
17^e SIECLE.



1650

NETHERLANDS.

PAYS-BAS.

Schaal
Massstab 1 à 400 Scale
Echelle

Fig. 146.

BEGIN DER 19^e EEUW.
ANFANG DES 19. JAHRHUNDERTS. BEGINNING OF THE 19TH CENTURY.
DÉBUT DU 19^e SIÈCLE.

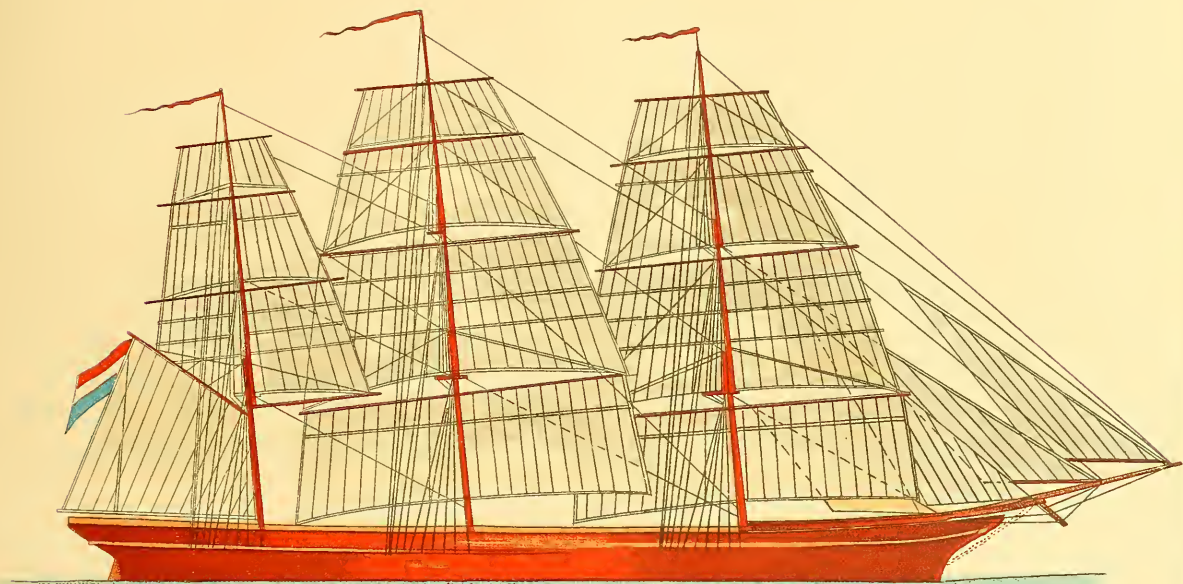
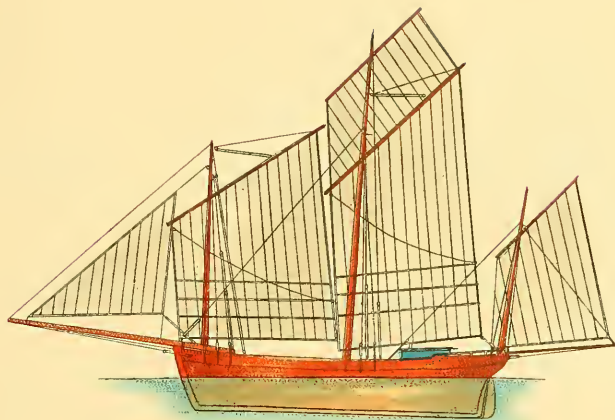
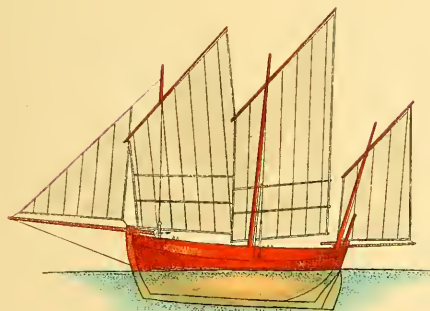


Fig. 147.

LOGGER.

LUGGER.

LOUGRE.



Schaal
 Maasstab 1 : 4 000 Scale
 Echelle

FRANKRIJK.

FRANKREICH.

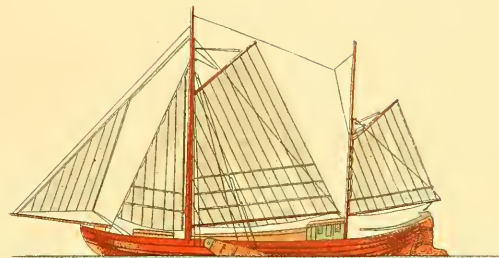
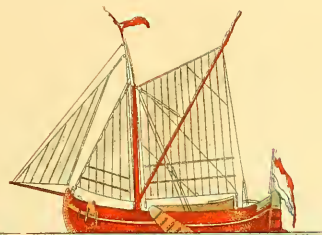
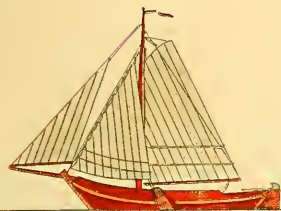
FRANCE.

NEDERLAND.

NIEDERLANDE.

NETHERLANDS.

PAYS-BAS.



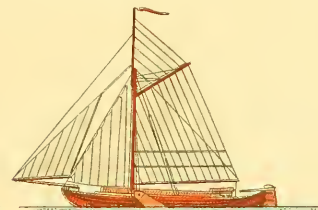
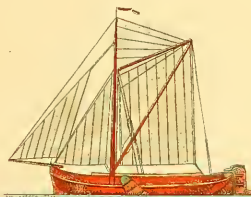
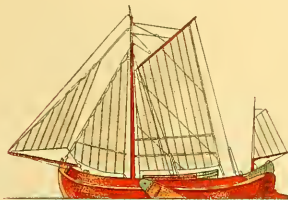
BEZAANTUIJG.

BESANTAKELUNG. BESAN RIG.
GRÉEMENT D'ARTIMON.

SPRIETUIJG (OUD MODEL).

SPRIETTAKELUNG (ALTE ART). SPIRIT RIG (OLD FORM).
GRÉEMENT A LIVARDE (TYPE ANCIEN).

ANDERHALFMAST BEZAANTUIJG.

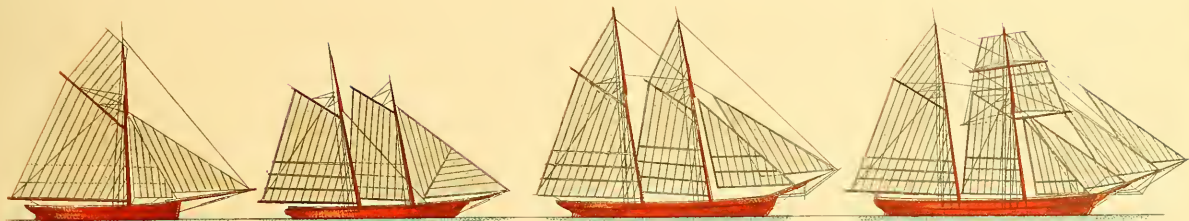
BESANTAKELUNG MIT 1 1/2 MAST.
GRÉEMENT D'ARTIMON A 1 1/2 MAT.

GAFFELTUIJG.

GAFFELTAKELUNG. FORE AND AFT RIG.
GRÉEMENT EN AURIQUE.SPRIETUIJG (NIEUW MODEL).
SPRIETTAKELUNG (NEUE ART). SPIRIT RIG (NEW FORM).
GRÉEMENT A LIVARDE (TYPE NOUVEAU).

KUBBOOTTUIJG.

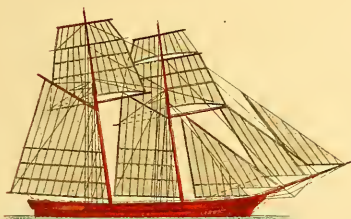
KUBBOOTTAKELUNG. KUBBOOT RIG.
GRÉEMENT A KUBBOOT.BEZAANTUIJG MET BEWEEGBARE STENG.
BESANTAKELUNG MIT BEWEGLICHER STENGE.
GRÉEMENT D'ARTIMON A MAT DE HUNE MOBILE.



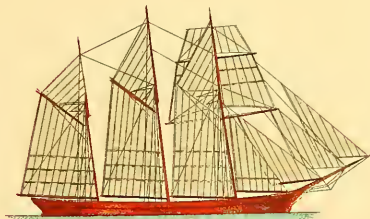
KOTTERTUIG.
KUTTERTAKELUNG. CUTTER RIG.
GRÉEMENT EN COTRE.

SCHOERTUIG.
SCHONERTAKELUNG. SCHOONER RIG.
GRÉEMENT EN GOËLETTE.

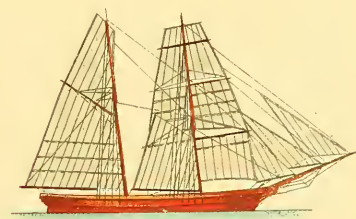
TOPZEILSCHOENER.
TOPSEILSCHONER. TOPSAIL SCHOONER.
GOËLETTE CARRÉE.



BRIGANTEIN.
BRIGANTINE. BRIGANTINE.
BRIGANTINE.



DRIEMASTSCHOENER.
DREIMASTSCHONER. THREE-MASTED SCHOONER.
GOËLETTE A TROIS MATS.



SCHOENERBRIG.
SCHONERBRICK. HERMAPHRODITE BRIG.
SCHOENERBRICK.

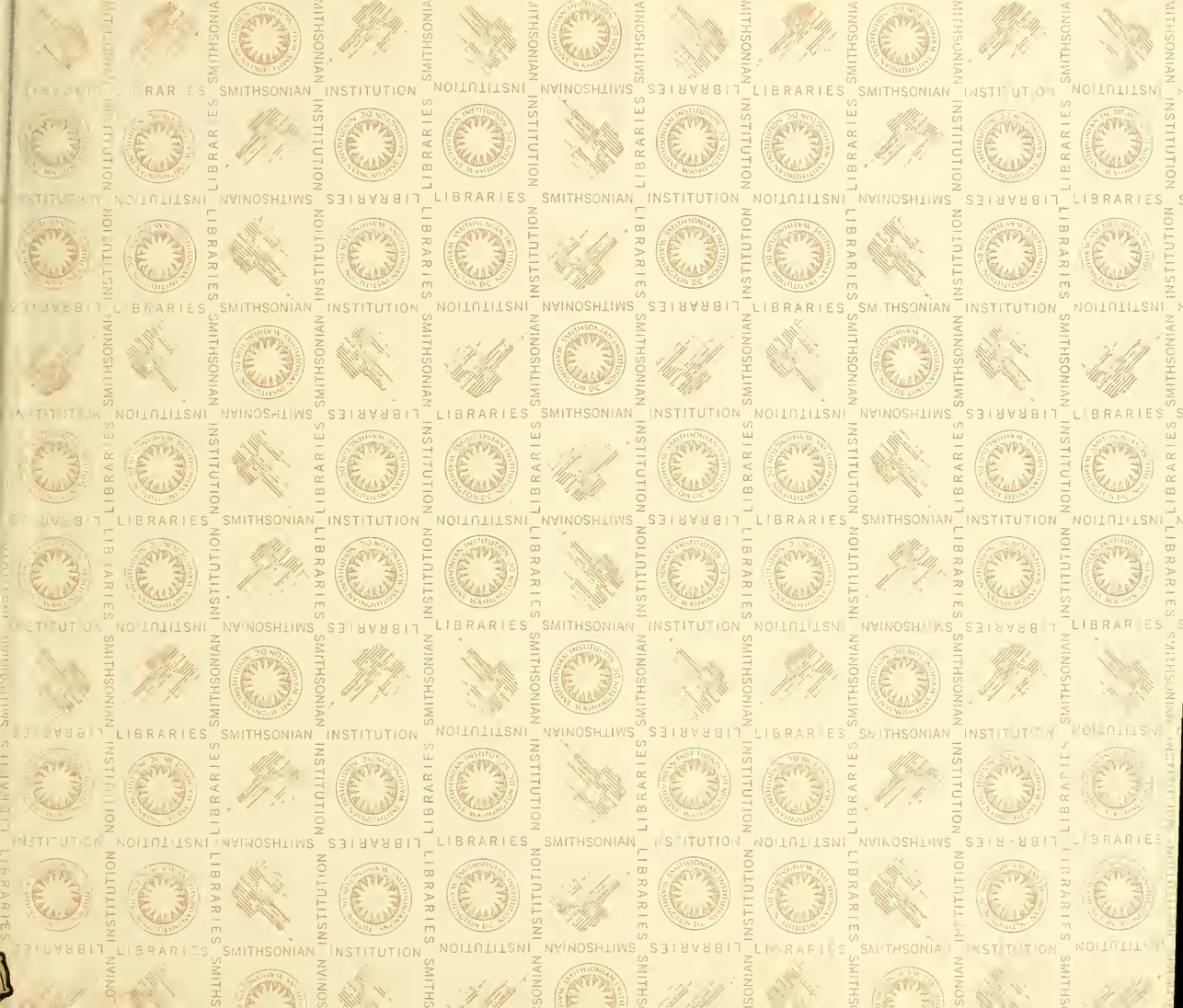




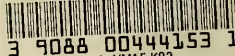








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v. 3 Shipbuilding from its beginnings.