Sopraan cornamuse c'- d"

Totale lengte pijp 320 mm Boring 5 mm

A= tenon 20 mm lang / diameter 18 mm

B= kapsteun 15 mm (3x5mm) lang / diameter 22.5 mm

C- D= 210 lang / diameter bij C 15.5 mm, bij D 20 mm

E- F= 65 mm (13x5mm)/ diameter bij E 20.5 mm, bij F 21.5 mm

G= 6 mm lang / diameter 24 mm

Kap

Totale lengte 110 mm Boring bij mondstuk 4 mm, verder 18 mm

Diameter bij B 29.5 mm, bij C 23.5 mm

Versiering (vanaf messing ring) 35 mm (7x5)

Mondstuk A 15 mm lang, diameter top 14.5 mm

Messing ring (D) 15 mm lang, diameter 22 mm

vingergaten

d	1	2	3	4	5	6	7	V
51	60	77	94	115	134	153	173	209
	2.5							

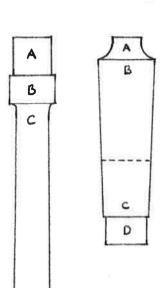
Riet

Gootje 93 mm lang / 0.9 mm dik in het midden

Afgewerkt: 46 mm lang, hoogste winding 20 mm van onder

Breedte top 14.5 mm / voet (15 mm cilindrisch) 8.5 breed.

Messing stiftje 13 mm lang, buitendiameter 5 mm.

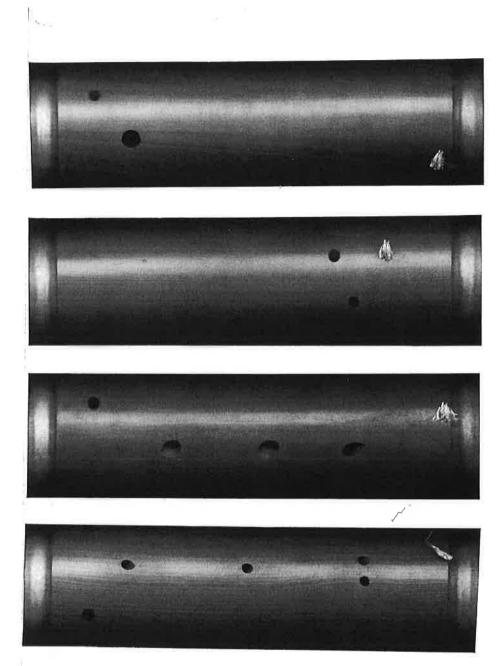


D

F

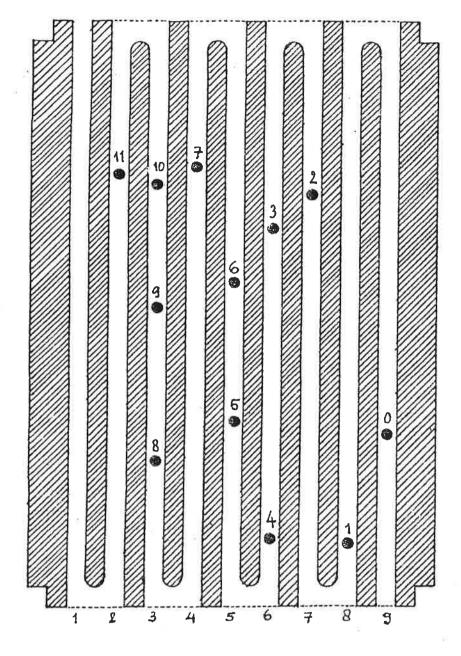


d 1 3 7 3 4 5 6 7 230 273



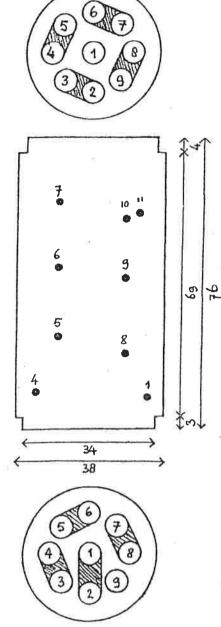
£

æ



diameter boringen: 6 mm boring 9 Gestopt tot vlak onder gat 0 gaten 4,5,6 tussen boringen 4,5 gaten 8,9,10 voor boring 3

Verbindingen bovenzijde



verbindingen onderzijde

gatnummer	in boring	afstand	richting	diameter
O	9	54		4.5
1	8	68	-	3.2
2	= 7	23		3.0
3	б	27		2.+
4	ΰ	67		3.2
5	5	52	- 1	4.+
6	5	34	omhoog	4.+
7	Ц	19	omlaag	4.+
δ	3	57	omlaag	2.5
9	3	37		3.0
10	3	22		3.0
11	2	20		2,+

alle afstanden gemeten vanaf de kop van het corpus + betekent een opgeruimde boring

RACKET FINGERING

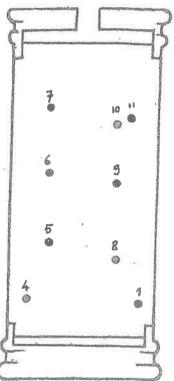
Hole zero, the big hole at the left side of the instrument, is the end of the bore.

Hole 2, at the back, is played with the left thumb.

Hole 3, also at the back, is played with the right thumb.

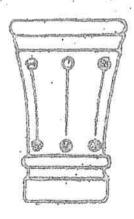
Holes 10 and 11 are both played with the left index finger.

All notes closed give: soprano and bass	G; tenoi	r C	5
Open hole 1	A;	D	F
hole 2	В;	E	
hole 3	C;	F	
hole 4	d;	G	
hole 5	e;	A	1
hole 6	f;	В	
hole 7	g;	С	OVER THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I
hole 8	a;	d	4
hole 9	b;	е	0



Forkfingering is possible, but must be adjusted by breath pressure.

d':



hole 10

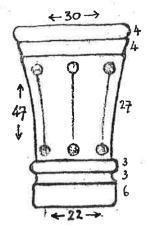
hole 11

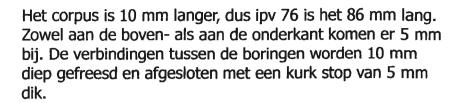
- * Soak the reed for some minutes in cold water
- * Remove the pirouette from the staple
- * Shake the water out of the reed and place it it on the staple
- * Replace the pirouette over the reed on the staple. Do it slowly and very carefully, the reed breaks easyily!



Pirouette

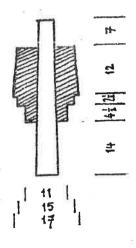
Staple

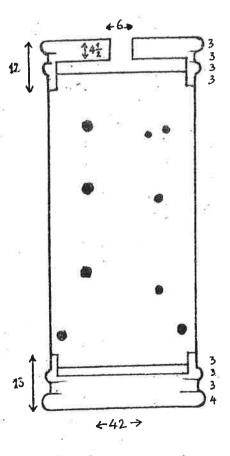


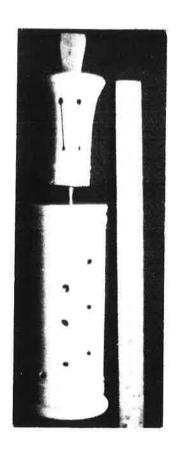


Boring 9 wordt van de onderzijde gedicht met een gedraaid houten stop tot 2 mm onder gat 0. Vingergat 1 wordt door de stop in boring 9 in boring 8 geboord.

De pirouette heeft een binnendiameter van 15 mm, wordt van de bovenzijde uitgestoken (in de draaibank) naar 19 mm.







Kopie in het MIM Brussel van de Rankett in het KHM in Wenen

Diatonische conische doedelzak in G (de standaard Fat Kitchen)

Speelpijp:

Totale lengte 350 mm/ tap 20 mm lang/ doorsnee tap 15 mm.

Buiten doorsnee: smalste punt 12 mm / voet 22.5 mm.

conus: topboring 5 mm- coniciteit 1 op 35 mm

d	1	2	3	4	5	6	7	v
67.5	82	104	127	159	185	211	237	280
3	3	4	3.5	3.5	6	4.5	3	3.5 (2x)

Riet: zie riet voor chrom. con. speelpijp.

Alt bourdon:

Stock 110 mm lang,/ boring 13 mm / Buiten doorsnee 23>22 mm

deel a: 145 mm lang (20-95-30) Buiten doorsnee 22>21 mm/ tennons 13 mm doorsnee.

deel b: 205 mm lang (95- 110) /buitendoorsnee pijptop 25.5 mm

Hümmelchen in F

Speelpijp:

lengte: 235 mm / boring: 4 mm / tap 20 mm lang, doorsnee 15 mm. ornament 28.5 mm onder tapdoorsnee 21 mm/ doorsnee pijp 13<17 mm

d	1	2	3	4	5	6	. 7
59	71	89	107	125	143	161	182
2.5	2 sh	2	3.5	3	2	3	2.5

bourdon blok:

 $125 \times 42 \times 20$ mm / 2 boringen, 80 mm diep, doorsnee 15 mm

<u>bourdons:</u> alle stocks en tennons doorsnee 10 mm. alle boringen 4 mm, uitgezonderd F3: 5 mm

F1: 140 lang (20-47:43-30) grootste buitendoorsnede 21 mm

F2: 120 lang (47:43-30)

F3: 190 lang (47:43-100) top doorsnede 24.5 mm

C1: 118 lang (20-35:33-30) grootste buitendoorsnede 20 mm

C2: 141 lang (35:33-73) top doorsnede 22 mm

Middeleeuwse cylindrische d-doedelzak, chromatisch.

Speelpijp:

Lengte 310 mm/ buitendoorsnede 16.5<35 mm/tenon 20 mm lang Daaronder 2 ornament ringen, 6mm hoog, de eerste 22, de tweede 19 mm in doorsnede.

Boring 4 mm/ beker 4<30 mm over een afstand van 95 mm.

d	1	2	3	4	5	6	7	v
54	65	80	97	119	137	156	179	244
2.2	1.8	1.8s	2.2	1.7s	1.7	2.4	2	2

Riet

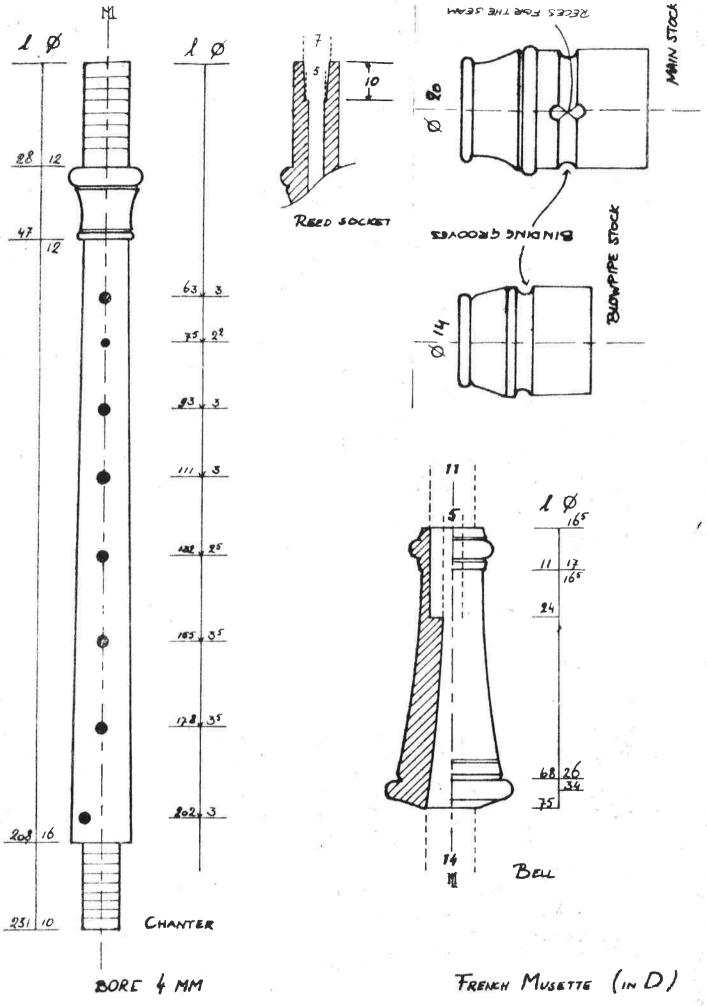
Totaal 43 mm /top 12.5 mm / winding 19 mm van onder.

Stock voor speelpijp:

Een simpele cylinder van 80 mm lang; buitendoorsnede 26.5 mm; Boring 15 mm.

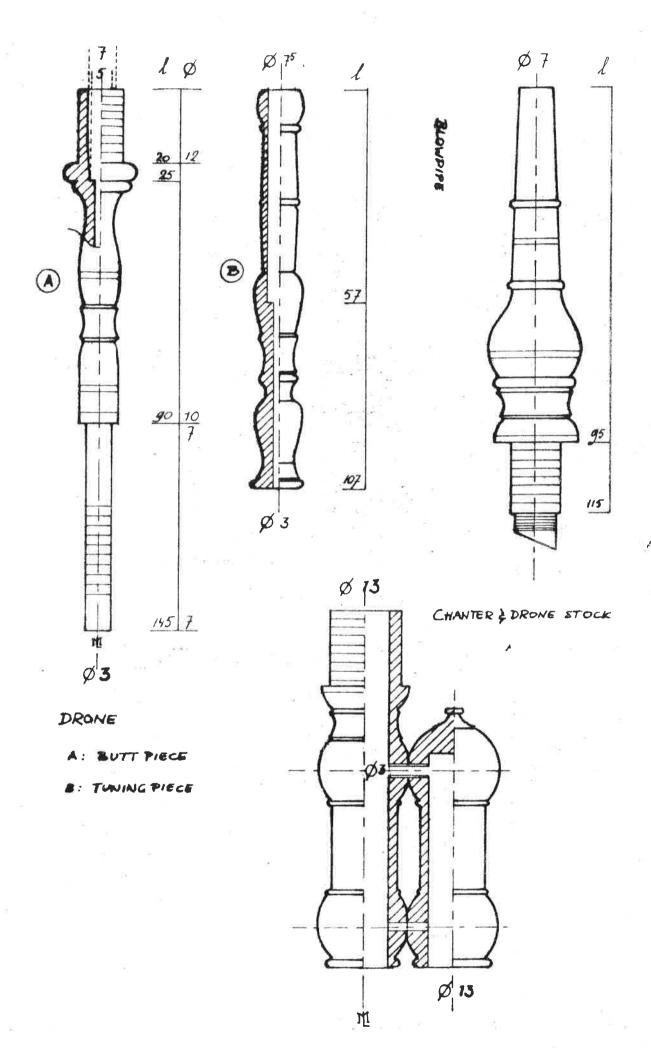
Bourdon:

Standaard F/D bourdon.



FRENCH MUSETTE (IN D)
CHANTER: SCALE 1:1

C 1981 MARIUS LUTGERINER



TONG O.6 DIK; 37.5. LANG; 6 MADREED -> NOOR 1.5 MM

Chromatische	conische	doedelzak	in	G
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Speelpijp:

Totale lengte 405 mm -tap 20 mm lang- doorsnee tap 15 mm.

Buiten doorsnee : smalste punt 12 mm- breedste punt (voet) 25 mm.

d	1	2	3	4	5	6	7	V	v
66	82	102	126	159	185	211	235	277	350(2x)
3	3	4	3.5	4	4	4.5 3	3.2/2.5	4.5	4.5

Riet: Gootje 89 mm lang, in midden 0.8 mm dik. Stift 13 mm lang, buiten doorsnee 5 mm.

Totale lengte 44 mm / Bovenste winding 20 mm van onder /top breedte 12 mm /

taille (bij tweede winding, 16 mm van onder) 8mm

Bourdon bas G:

Stock 150 mm lang/ buiten doorsnee 25>24 mm/ boring 15 mm.

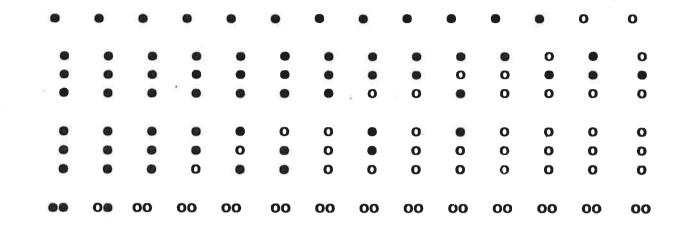
Deel a: 205 mm lang, (25-140-40 mm)/ doorsnee 24>23 mm/ boring 5

mm.

Deel b: 180 mm lang, (140-40 mm) /boring 5 mm.

Deel c: 330 mm lang, (140-190) / boring 6 mm/ buitendoorsnee top

conical pipes in C





Keep the reeds as dry as possible, that way they stay the longest time stable.

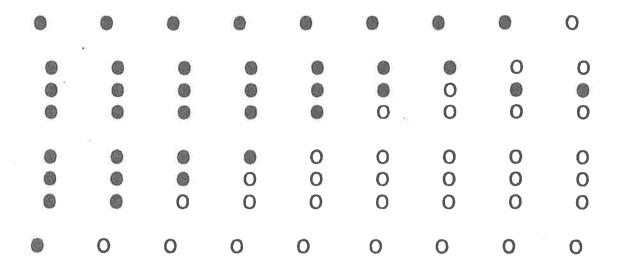
When the pipe has not been played for a longer time, the top-opening of the double reed becomes smaller, it closes because the reed-wood has dried out. This causes a soft and —in the lower register—a weak tone. With cylindrical pipes the higher tones are too high.

The best thing to solve this is to play the instrument for some minutes. By the moisture of the breath the reed will open again.

If this is not sufficient, take the pipe out of ist tenon and open, very carefully, the reed the upper brass winding from the sides.

In the same way one can close the top-opening by pushing the upper winding from front and back.

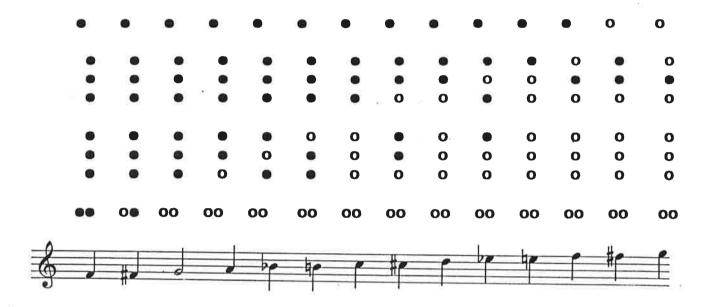
Single reeds (drone reeds) are made of plastic and not so sensitive. They sound (almost) always.





- * Do not soak the reeds, let them dry. They will last longer that way.
- * When the pipes have not been played for a considerable time, the opening (tip) of the reeds becomes smaller -as the reeds dry outresulting in a too soft and, for the low notes, weak tone.
- * Best solution: do not pay attention to the tone quality, just play for some 5-6 minutes. The reeds will open again due to the moisture of your breath.
- * If this does not work sufficiently, pull the pipe (very carefully -reeds are vulnerable-) out of its stock and open (again very carefully) the tip opening by squeezing the upper brass winding from the sides. Use small pliers.
- * To make the tip opening smaller: do the same, squeezing from frontto backside.

conical pipes in G



Keep the reeds as dry as possible, that way they stay the longest time stable.

When the pipe has not been played for a longer time, the top-opening of the double reed becomes smaller, it closes because the reed-wood has dried out. This causes a soft and —in the lower register—a weak tone. With cylindrical pipes the higher tones are too high.

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Single reeds (drone reeds) are made of plastic and not so sensitive. They sound (almost) always.

REMOVING THE CAP:

SMALL MOVE MEHTS
IN OHE DIRECTION
UPWARDS.

LEFT-RIGHT, THEN YOU
TOUCH WITH THE INMER
SIDE OF THE CAP THE REED.
THE REED BREAKS VERY
EASYLY.

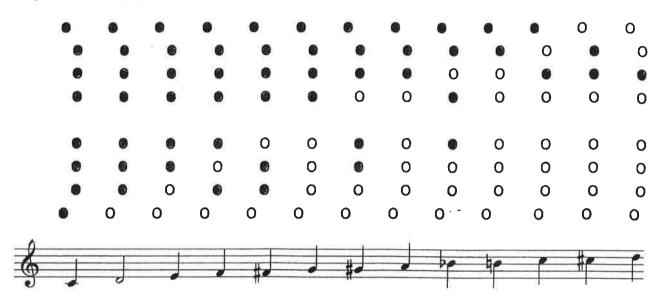
#

DO'NT SUAR THE REED BEFORE PLAYING; MAR IT THEREED IS TOO CLUSED, PLAY SUME MUMENTS AND BY THE MUSTURE OF YOUR BREATH THE REED WILL UPEN

#

BAS RACKET 466 Hr Conpus 164 LAMC; \$41

cylindrical pipes in D



- * Do not soak the reeds, let then dry. They will last longer that way.
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- * Best solution: do not pay attention to the tone quality, just play for some 5-6 minutes. The reeds will open again due to the moisture of your breath.
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- * To make the tip opening smaller: do the same, squeezing from frontto backside.

Paul Beekhuizen

Historische doedelzakken- Renaissance riet instrumenten Early bagpipes- Renaissance wind instruments

RACKET FINGERING

Hole zero, the big hole at the left side of the instrument, is the end of the bore.

Hole 2, at the back, is played with the left thumb.

Hole 3, also at the back, is played with the right thumb.

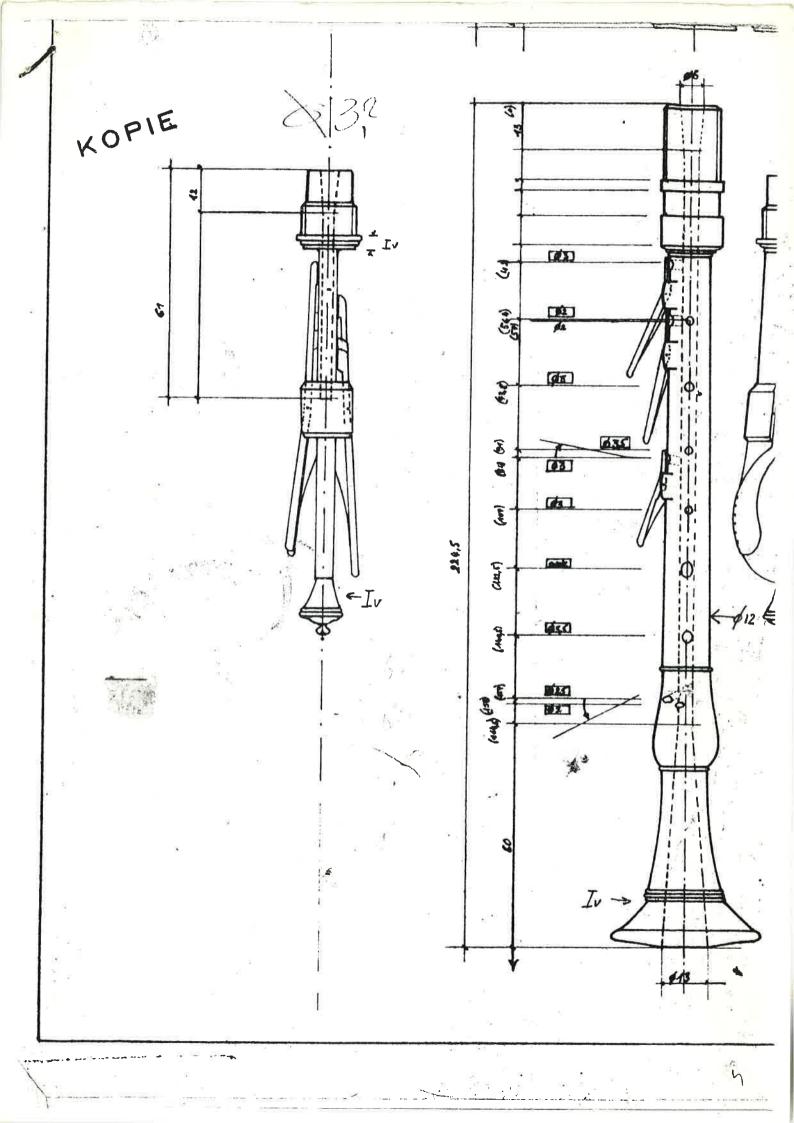
Holes 10 and 11 are both played with the left index finger.

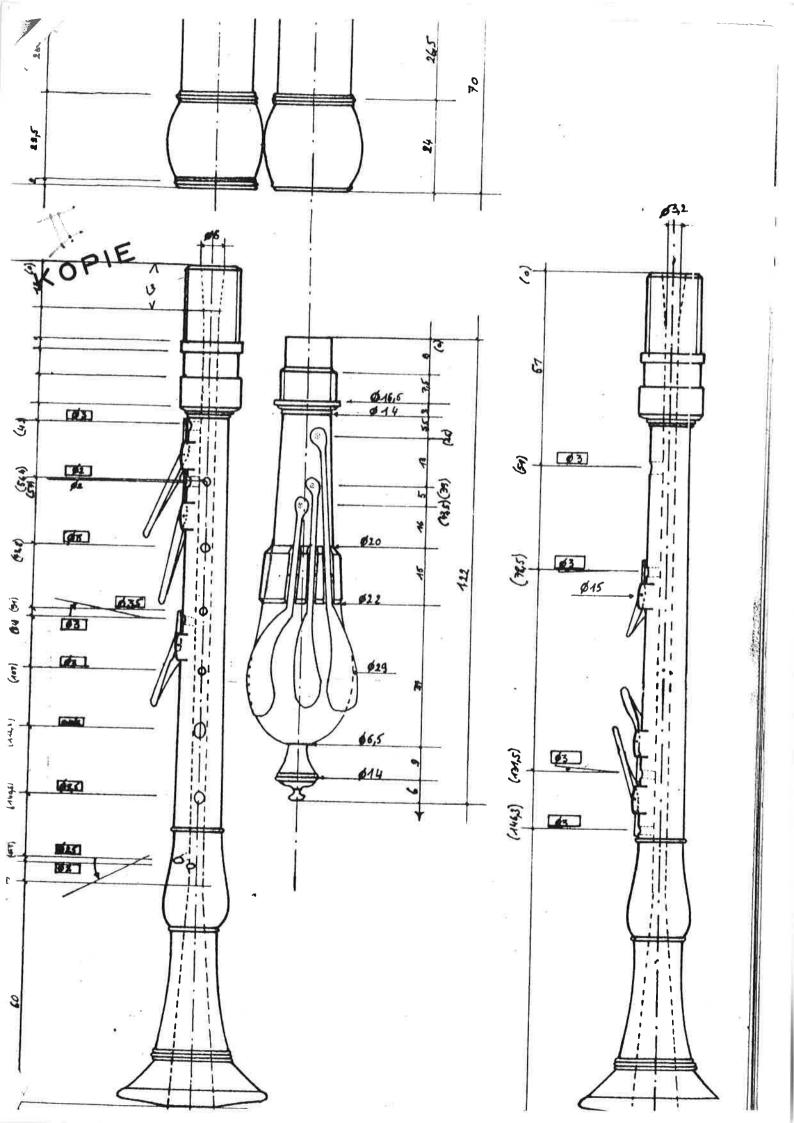
All holes closed give: soprano and bass	G; tenoi	r C	F
Open hole 1	A;	D	1
hole 2	В;	Ε	1
hole 3	с;	F	7 10 11
hole 4	d;	G	6 9
hole 5	e;	Α	9
hole 6	f;	В	5
hole 7	g;	С	9 8
hole 8	a;	d	4 1
hole 9	b;	e	
hole 10	c';	f	
hole 11	ď;	g	

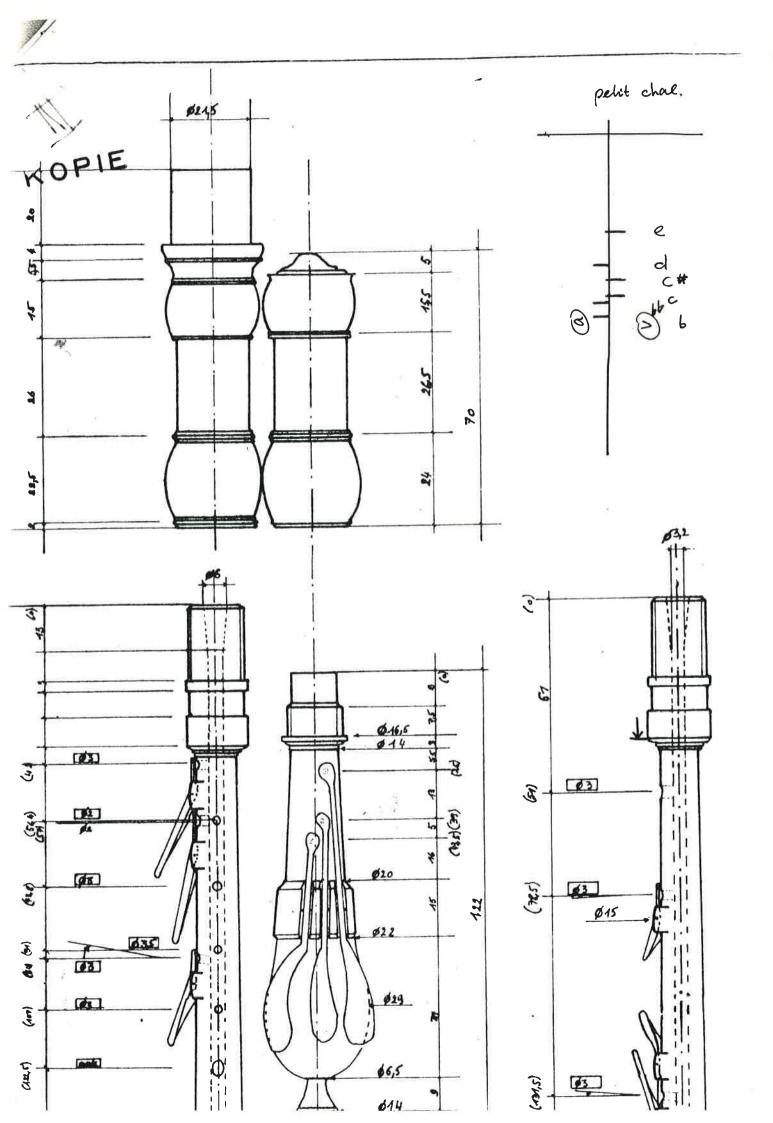
Forkfingering is possible, but must be adjusted by breath pressure.

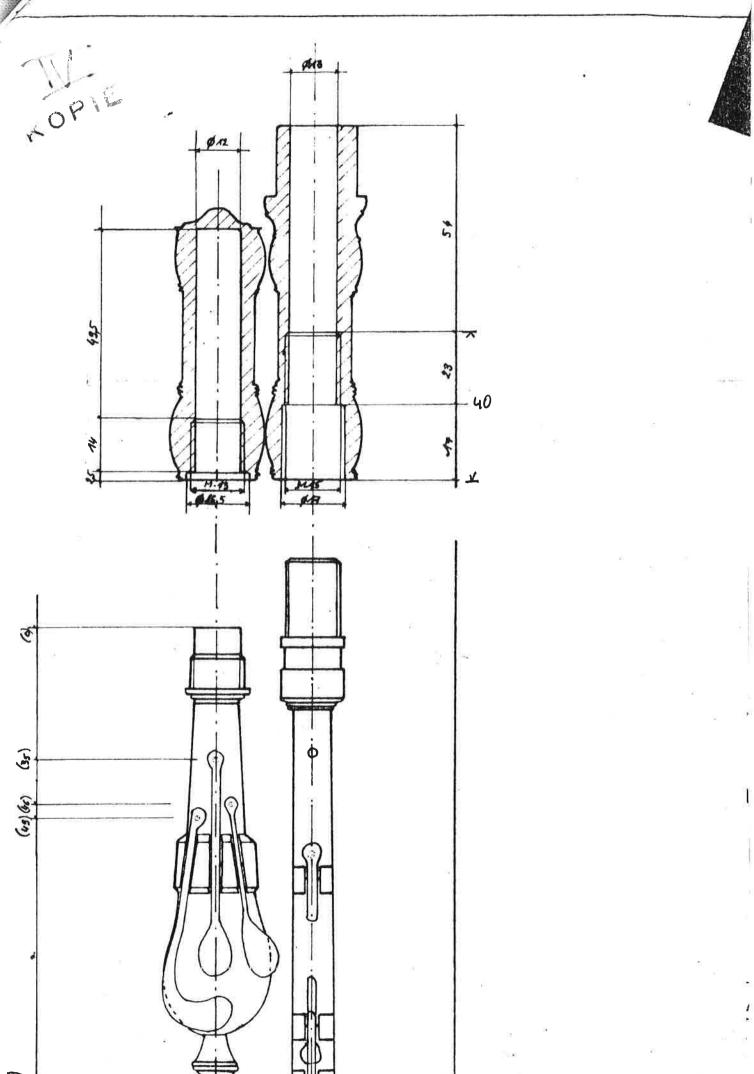
Paul Beekhuizen/ Spaarnestraat 47/ 2515 VM den Haag/ Nederland Telefoon **31 (0)70 3853213/ ING Bank 756919 IBAN: NL75INGB0000756919/ BIC: INGBNL2A

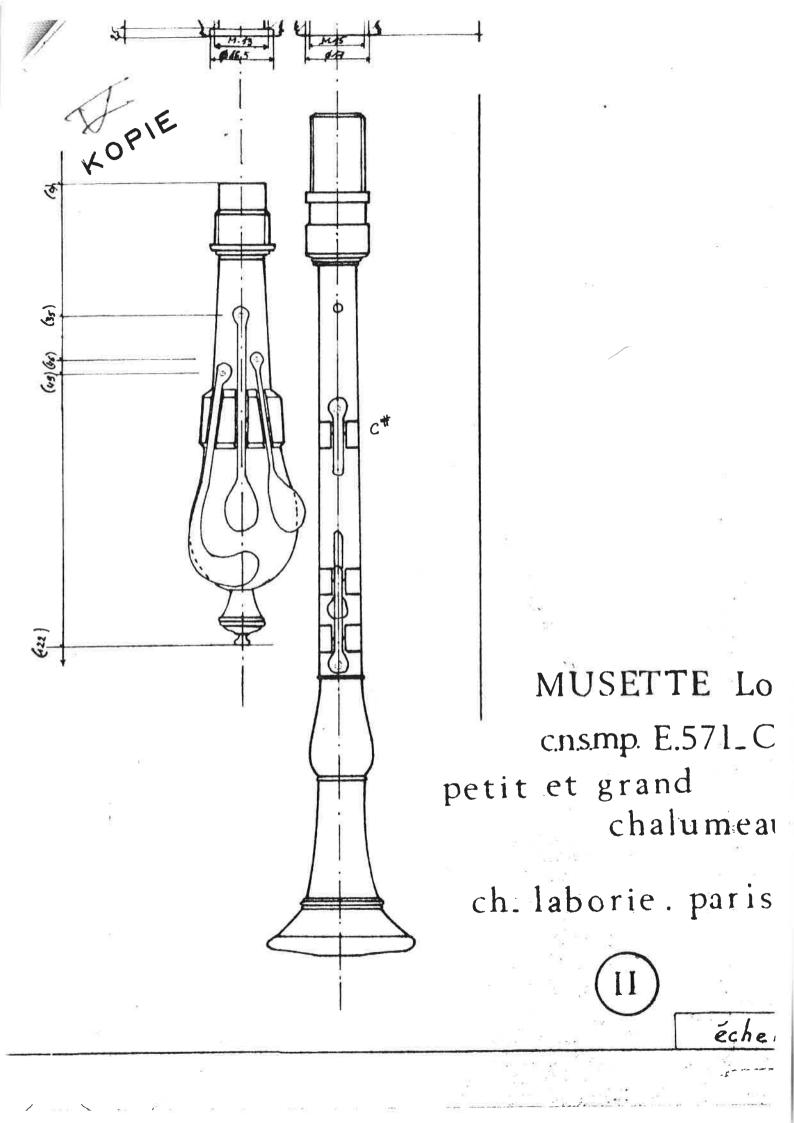
www. paulbeekhuizen.nl paul.beekhuizen@worldonline.nl











1 = Sortie layette Do 11 = Sortie layette Ré

bett = seus d T = Liaison

he paties grises regular

G.R.

A

ue de dessus

δ

True de dessoul invense, var ratants AR

മ

Schad 1:2

H

vue de dessus

D

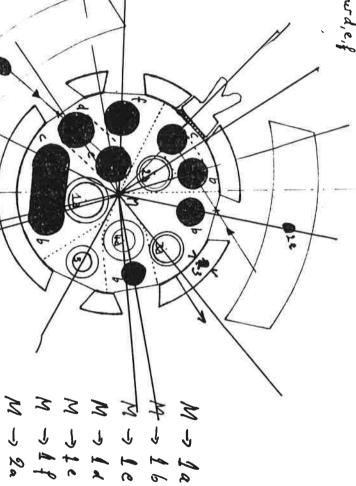
dimensions des lanaux:

Soundon 1: 4,5 /m pour a, b, c; 5 /m pour d, e, f

Soundon 2: 4 1/m Soundon 3: 3,5 1/m

Boundon 4: 3 /m

14 borny



4 1/2 mm

10 mm

M-> 4a 61/2m M-> 4a 11mm M-> 4a 11mm

51/2 mm

10 mm

10% mm

10 mm

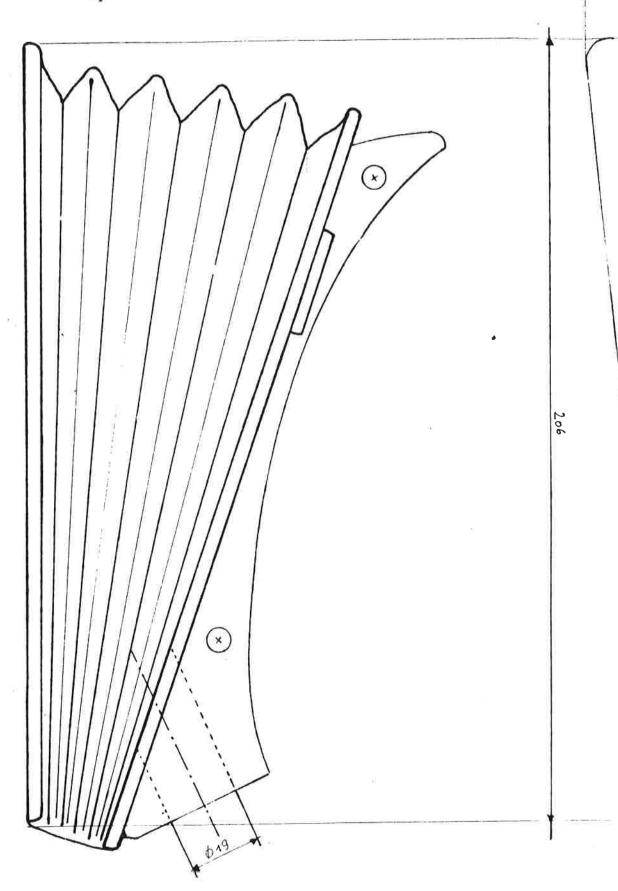
rue de

10 mm

1012 mm

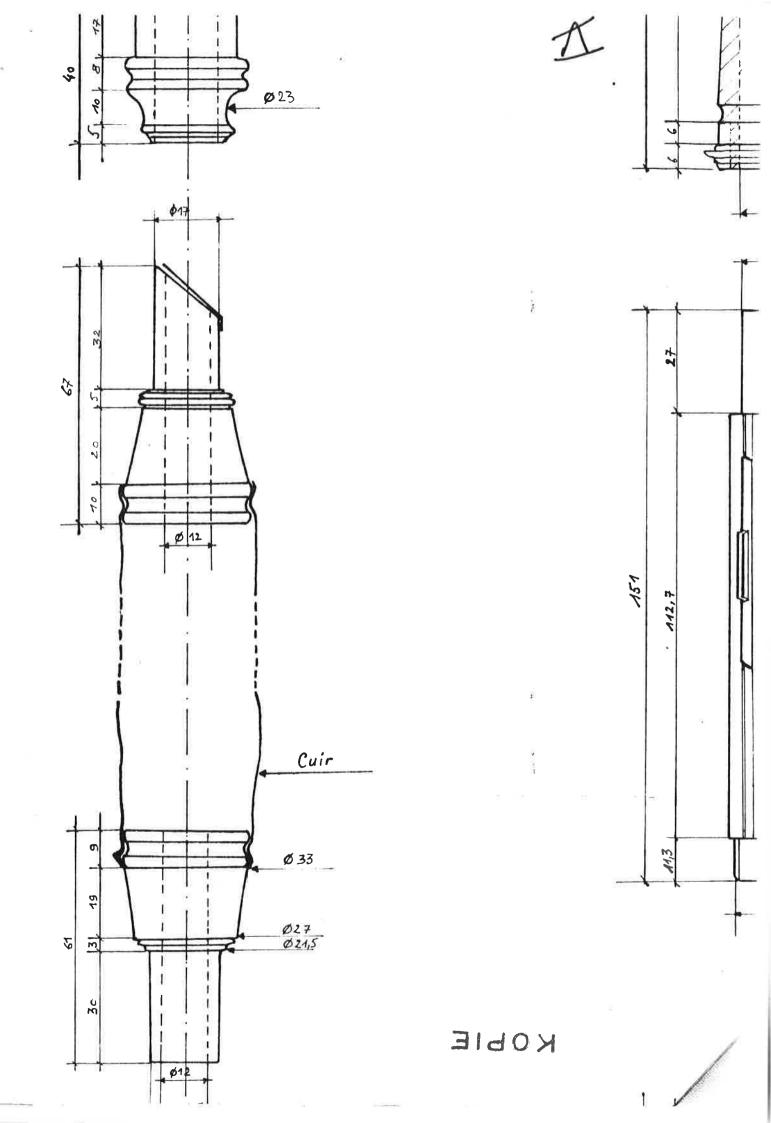
KOPIE

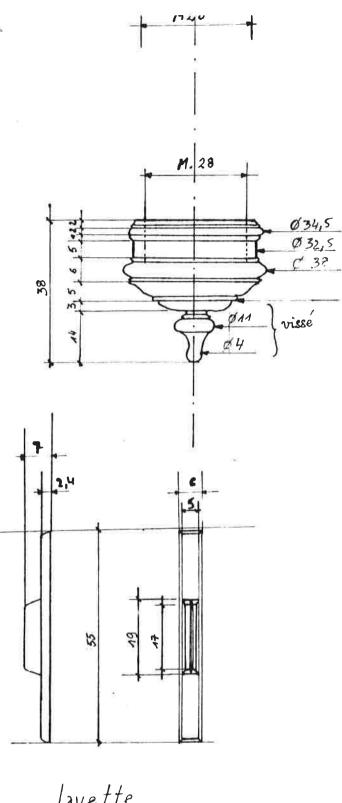




(Eddelle 2) wasee par raportà AB (cant.). 59 49 (count.) 69 ui pelat C 19 A. M. D C. S. W he portion goises regresentent by commen bouches d tel 1 = sens du vent dans les canant hisisons per caral trausinal L = Linisons par la fond on le dossus fouchounement du dour don

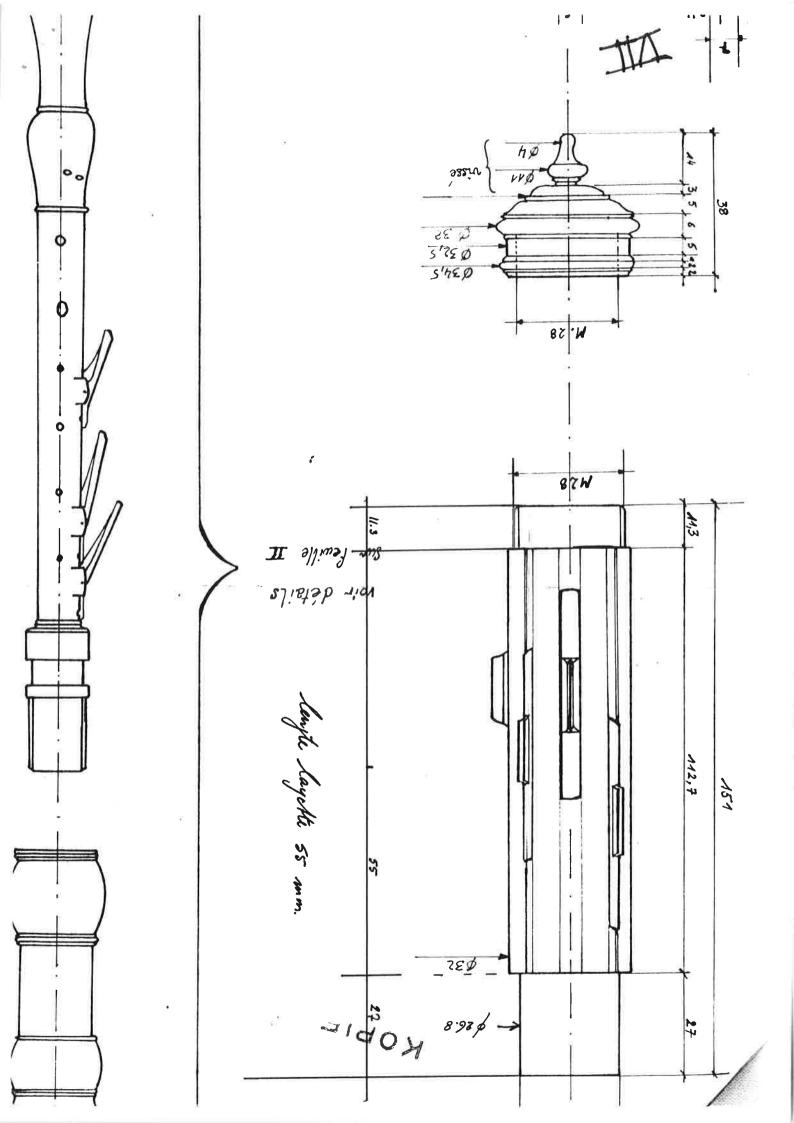
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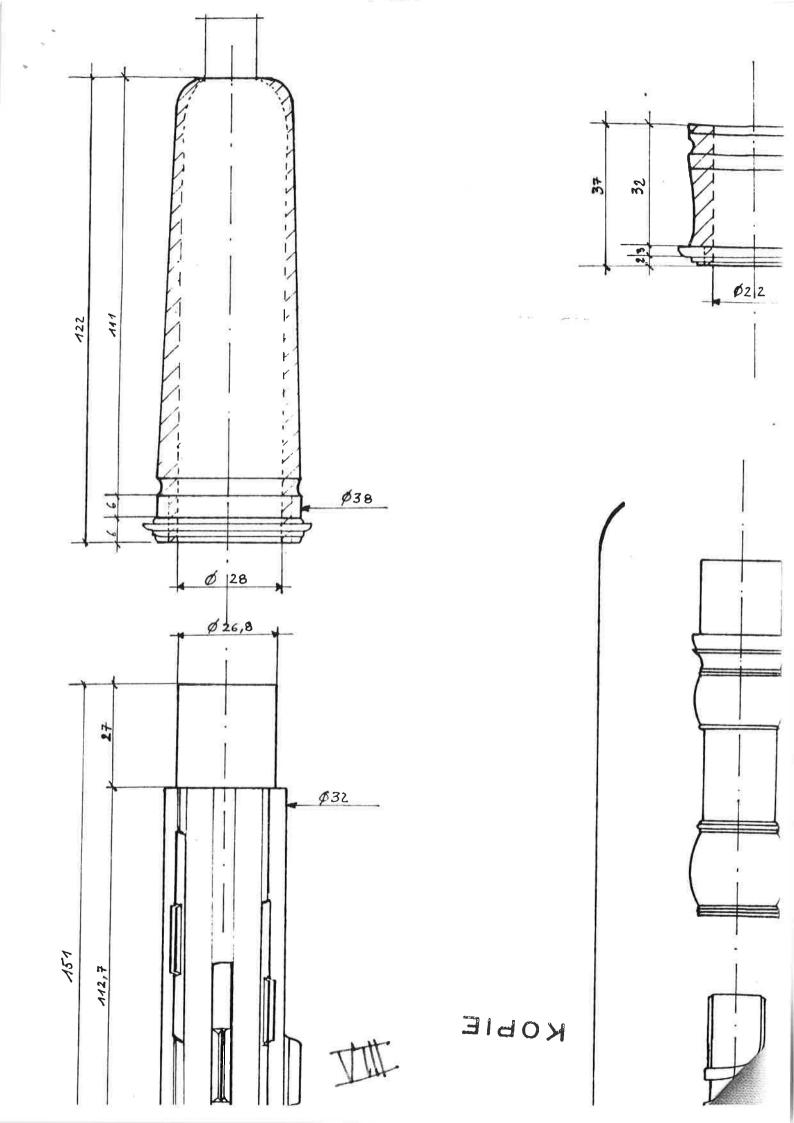


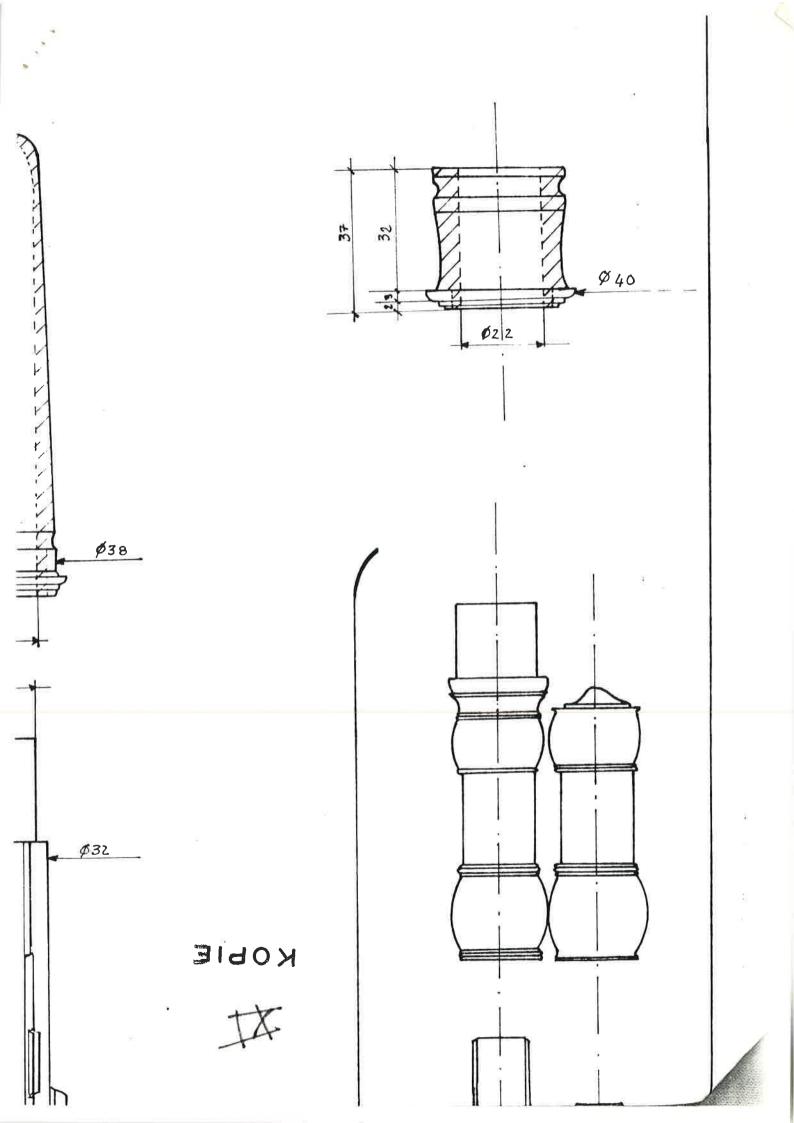


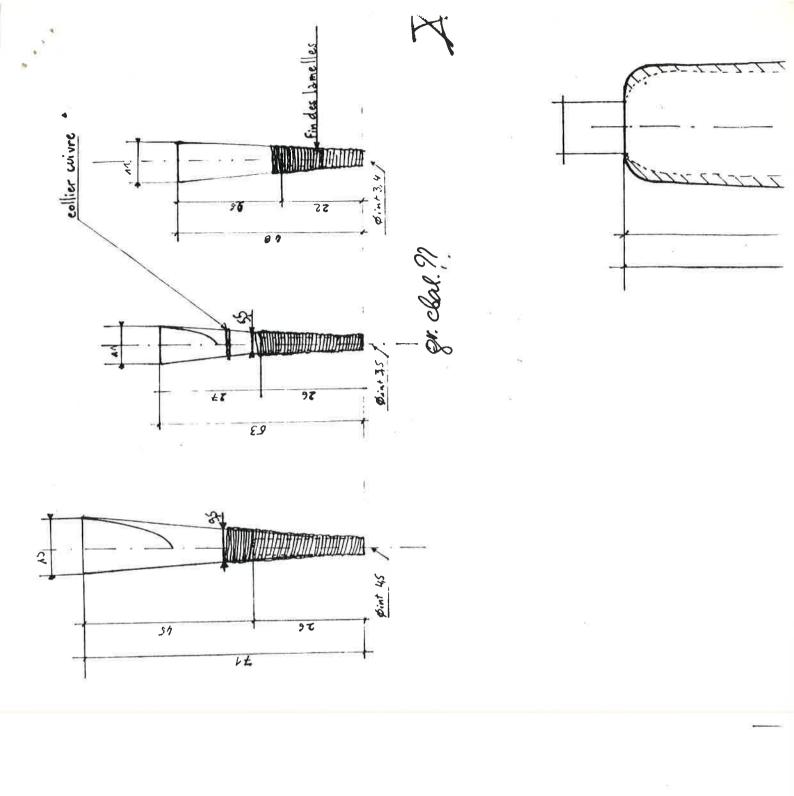
Layette

大OPIE

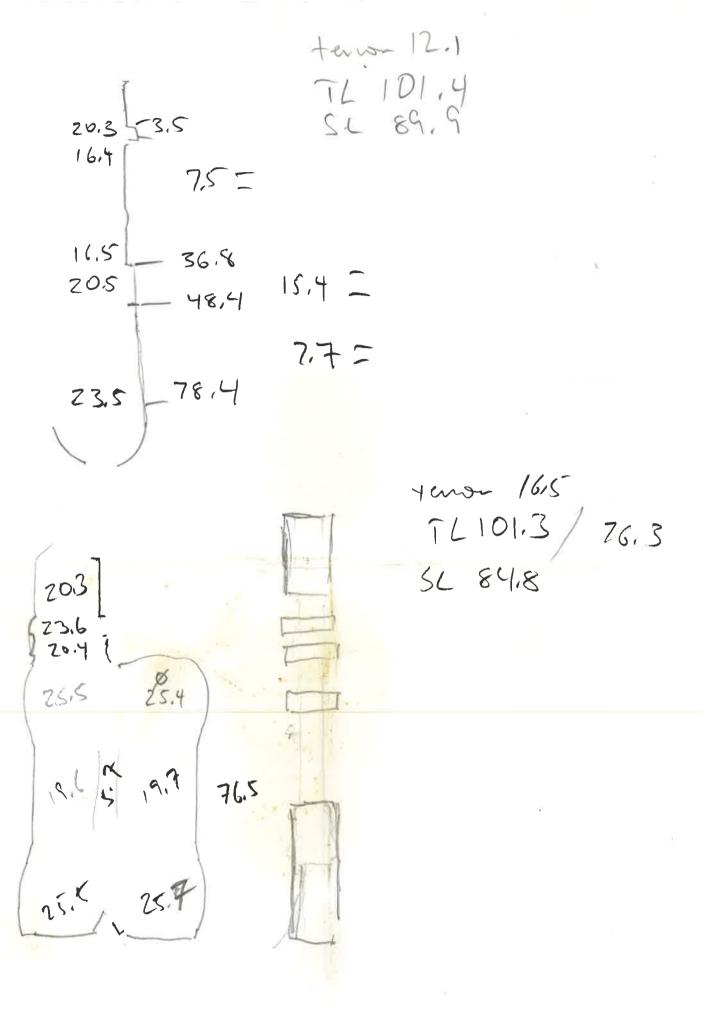


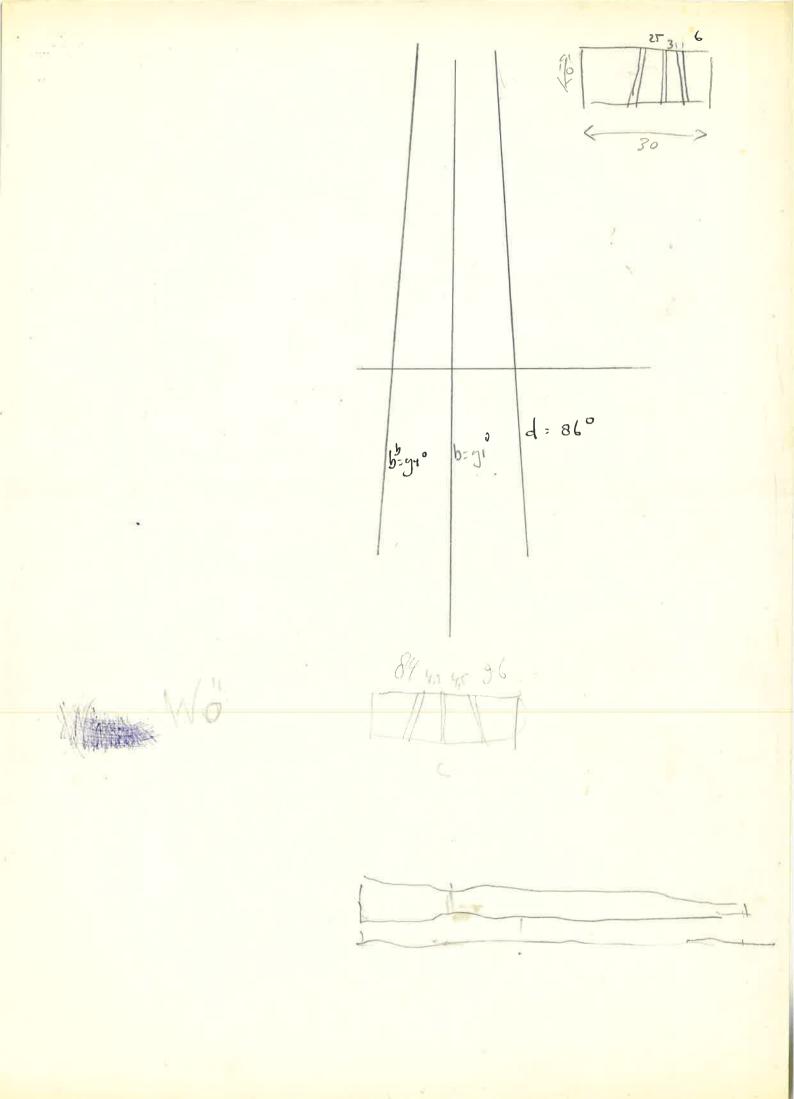


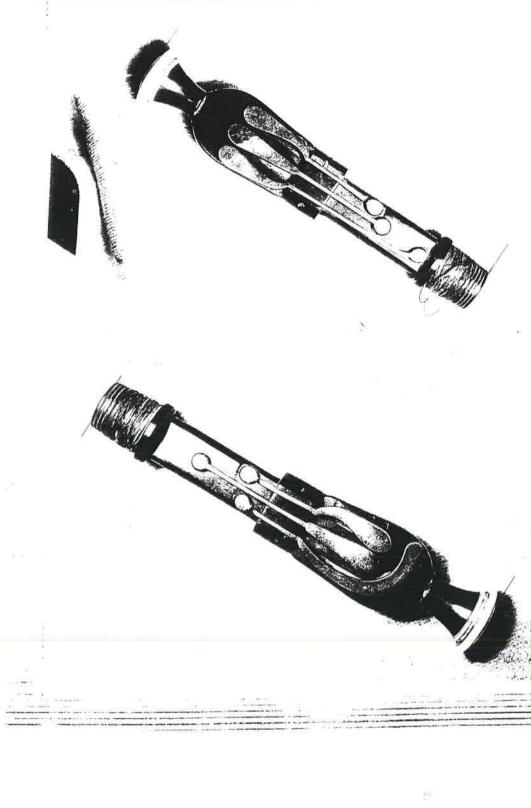




KOPIE



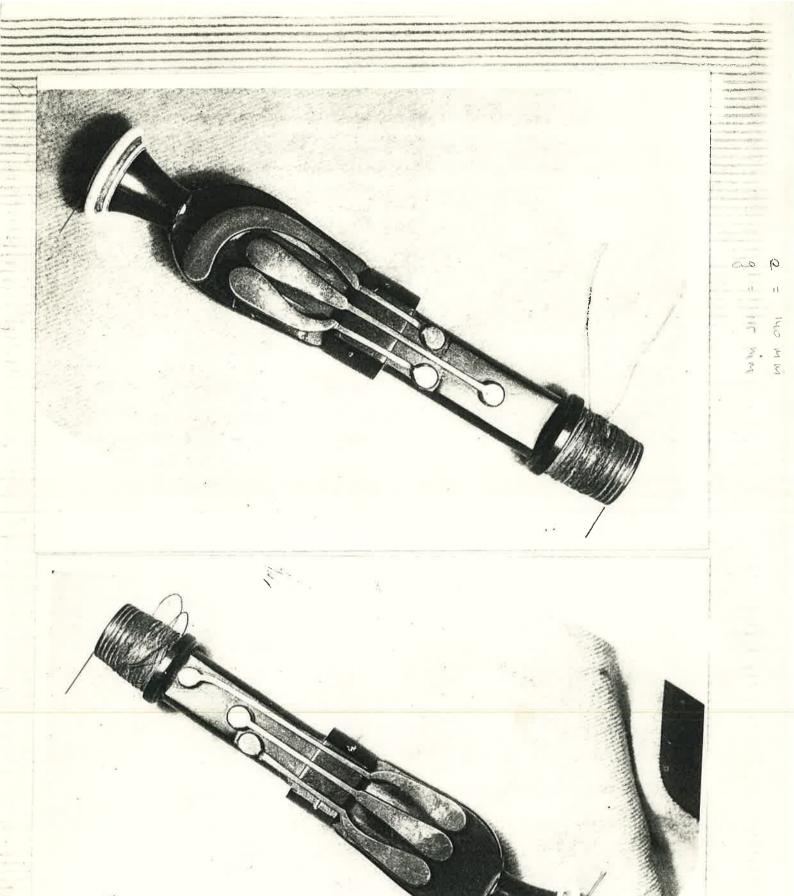




Myr. 10125-5	7	385	27	475	05
100	32	~~	38	4%	44
× 0	U	حـ	20	2	Q

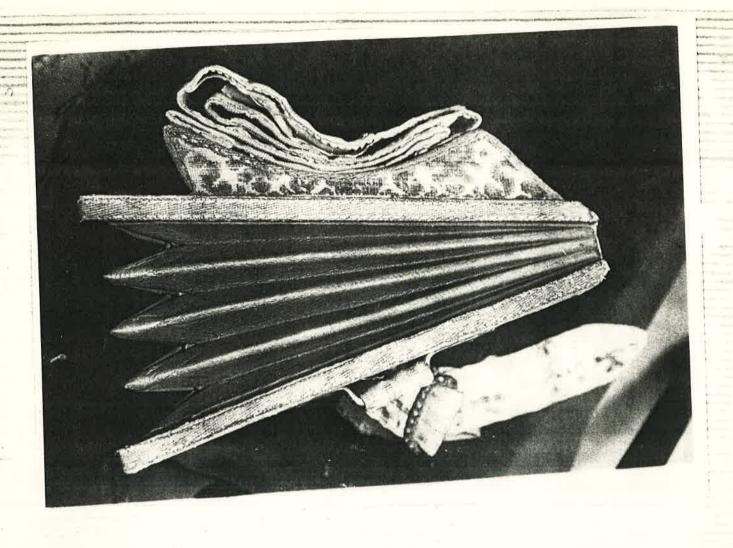
g (a 415) 1:11

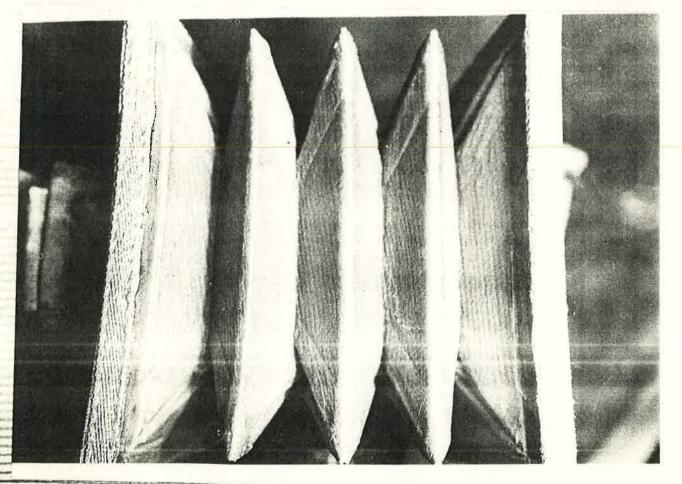
L'agettes III my in g Black leaker Galls, 19 119 (N V Viened from drove Stock and. I vory slides. Gouran A 108-162 39 98.56-132 59.8-3 43-61, 78-98 -> 0/0 35-50-64-80 Sole covered with 41-91 > 9 34- 45 paper or very thin skin' 41 - 93. -> G 34 - 45 Similarry the stock tenun 33,-75 40 - 95 undereasin lapping thrend. Bourdon Lox 179 No taper combed in mm. Reed tenon Longto 12 mm & 30.9 No appoint taper, combed in min Reed tenor Lind 36
Body 8 EL 130 36.8 Drove stock dept 132 6.25 37.75 38.1 36.4 10.6 7.8 5 5 2 06 54 J 9.2 \$ 5.3 y 52. सद्ये र 2.18 5 1 4465 3.58. 5. 7 75-55 11 94 48 A * * Depth of cap 13 1.D. Crests of thread 315. S IS L'ave 1 7.4 * * 7. 9 21 prailable red legio



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1 6





provinces thereon

Bourbous:

(BASSE) VERBINDING TUSSEN BORINGEN 5+6 28 mm. DEEP.

RUET: 65 MM LANG, (27 + 38) TOP BREEDTE 16 MM, STIET OF

(Desus)

2 BORINGER SHMD VERBINGEN OF 55 MM VAN ONDER (STOPSE WEG VERKEN IN COULISE)

RIST: 32.5 LANG (13+15.5) TOPPREBOTE WAY - STIFF 4.6

(TAILLE)

S BURINGEN : 3.5 \$, VERBINDING TUSSEN 2+3 OP ZO MM VAN ONDER (CIGT OMDER DE GAREMWINDING)
RIET: 45 MM LANG (20+25), TOP BREEDTE IL. FMM, STIFT \$4

C/cl YAUT-COMTRE 2 BORINGEM 3.5 MM Ø. UITGANGEN: C VAN 30 TOT 50 VANOHOR d VAN 65 TOT 80 VAN ONDER

PLIET 45 MM LANG - (20+25) FOR BROSDATE 12 MM - STIFT \$ 4

ALLE LAYETTES ZIJN SO LANG, ALLEEH CAYETTE C/d is 55 mm.

CIRAND CHALLUMEAU

TOTALE LENGTE 217 MM, BURING 3.5 MM \$

INZE IN TENNON: 23.5 MM

VERDER OF FUTOCOPIE, ALLEEN A GAT (GAT 6) MAG I'Z MM HOGER.
HOT D GAT (GAT 5) HEEFT EEN & VAN 3.7 MM, STERK ONDERSHEDEN EN
NAAR BOVEN TOT OVAAL GEVIJLD.

DE BEKER RUIMEN MET RUIMEN 1 38 MM DIEP - MET TAPSE RUIMER STEMMEN

