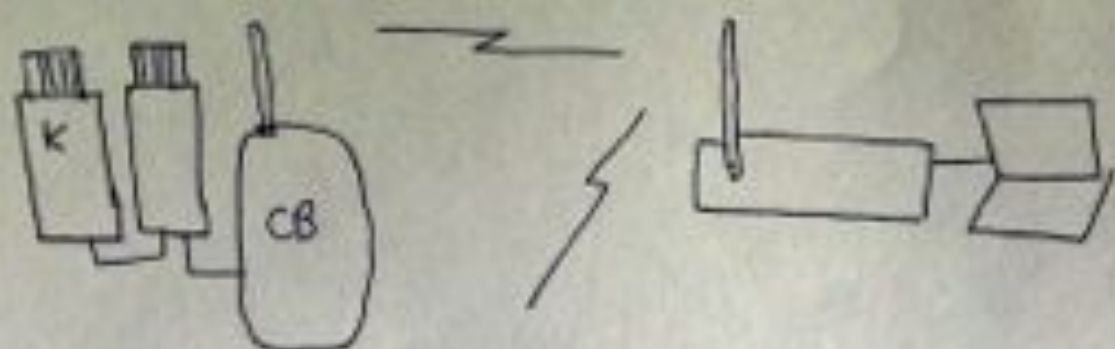




HALLO_WELT!

1H 1A 1L 1L 10 1- 1W 1E 1L 1T 1!



1x/y

1/1	1/1	
1/2	1/2	

WIE EINFACH? , EINE HEL MIR ~~zu~~ ZU
BRINGEN. JUST KLICKEN!

So EASY COME. SOMEHOW WETERED, OR?

So EASY IS NOT NORMAL, OR?

~~4x~~ 2000

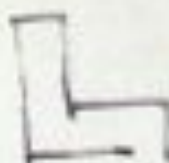
an Montag ; Montage.

$7 \frac{1}{2} \times 13 \times 20$

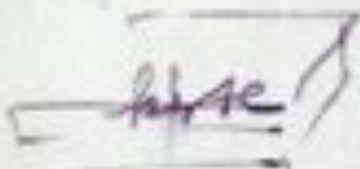
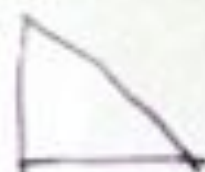
piece $\times 40$? | $\times 50$



ino.



od.



FRAGE ICH MICH, od. FRAGE MICH
WARUM, WOFÜR LEBST DU?
VANN, ANTWORTE ICH;
UM zu LEBEN.

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map 32

D. I/O 83/SPWM

A. I/O 16

mega

54/14 PWM

16

$\Sigma I/O$

99

70

(I/O pins 85)

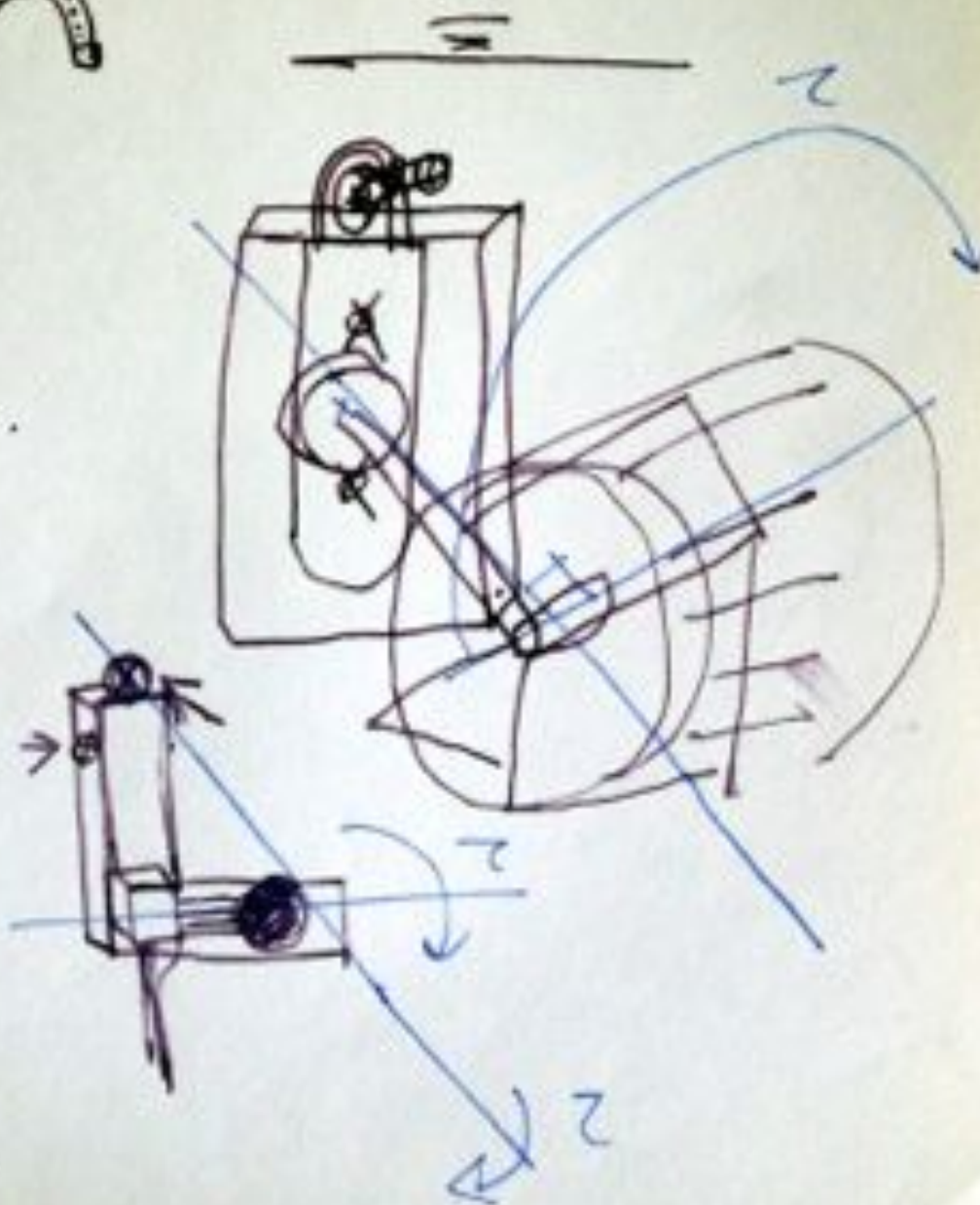
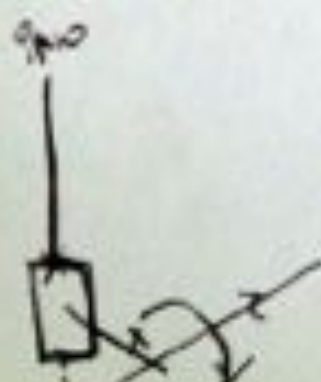
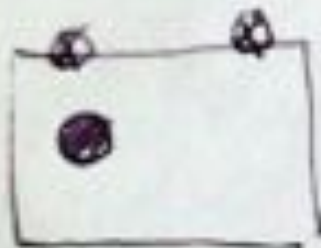
Strap pin

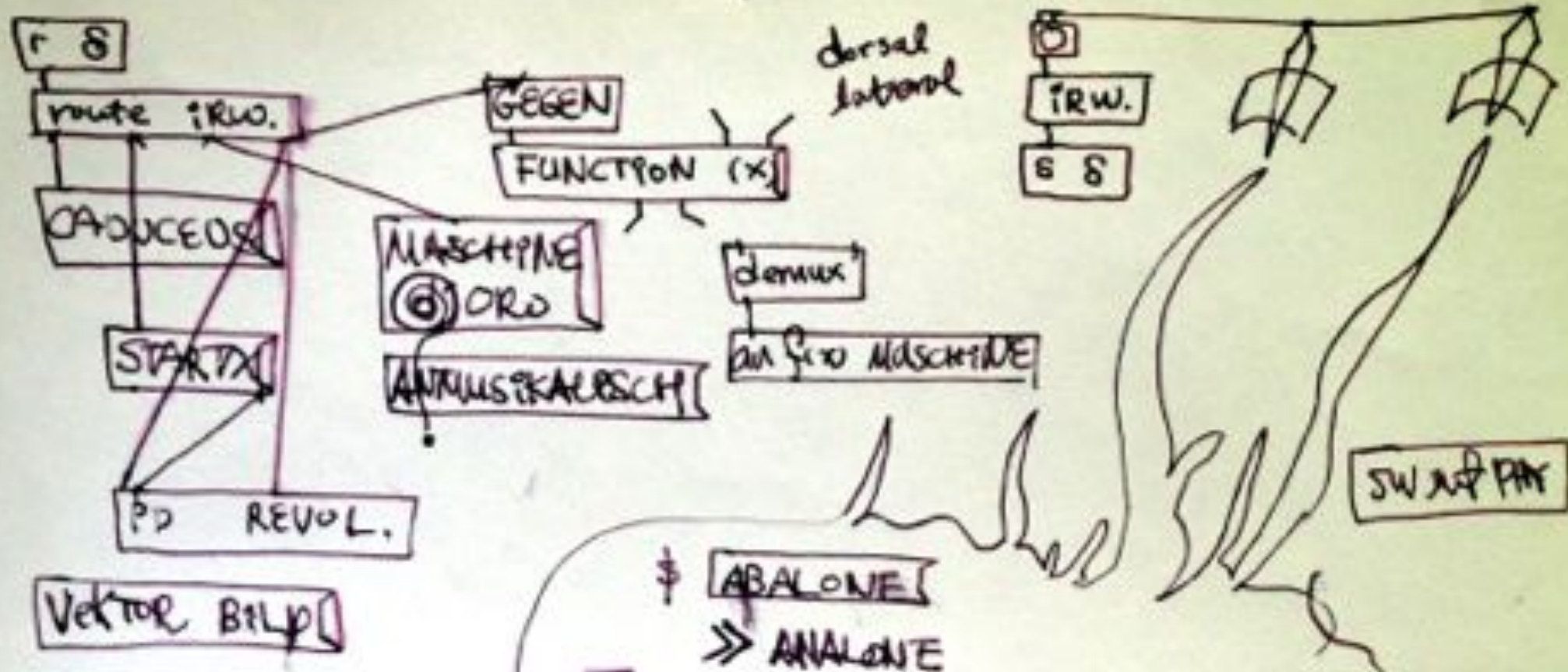
101

> Konstruktion

$\frac{28}{19.6}$

MODULAR

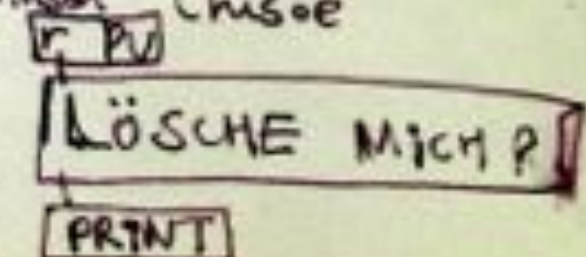




No Emus
 Et - o Nmus
 SE ! - o N.mus da.
 => Das Leben + Humour

PARADOXALGE y getrackt

Daniel Drfoe
 Robinson Chusoe



MUT ist nicht MURIG ?

mit {
 • set CurrentPosition(0); jetzt ist NULL
 • move(\$1): move \$1 steps. relative
 • moveTo(\$1): move to absol. position \$1.
 • distanceToGo(): wie viel STPS to Target position.

long relative
 long absolute
 long position

NULL position einstellungen

Whe?

then, (check in PD.
 $\frac{SgA}{\neq 0}$ then —
 $\neq 0$ then —)

moveTo (long Absolute)

0 ~ 3199 (3200 STP / 1R)

↓ 0-31 32-
 └─┘ └─┘
 I II

(32 STP / 1 char)

oder: wenn die null pos ist ganz genau in ARD, dann
 kommt nicht etwas darüber in PP?

Aber, wenn in ARD, kann man nicht alle smarteas
 null-p machen, d.h. dauert es viel Zeit & kann
 (man auch nicht die wieder null-reset machen?)
 Ja.

1A 1a : move(1)
 1H : kontrol

für Null-p od. automatisch

0X) Strom

1X

1A) Strom-A

0A

2A) $1/8$

3A) $1/16$

4A null check

Binary

5A Kalibrationsmodus

konstant speed

accel speed

Max speed

32a x ml + 4A serial.
print
(5A)

Solat

00

01

Wieder

Schleife

Chipset

Kern

Dir 32 (5pin)

54 (14pin)

A 16

16

84 I/O

70 I/O

2.3V

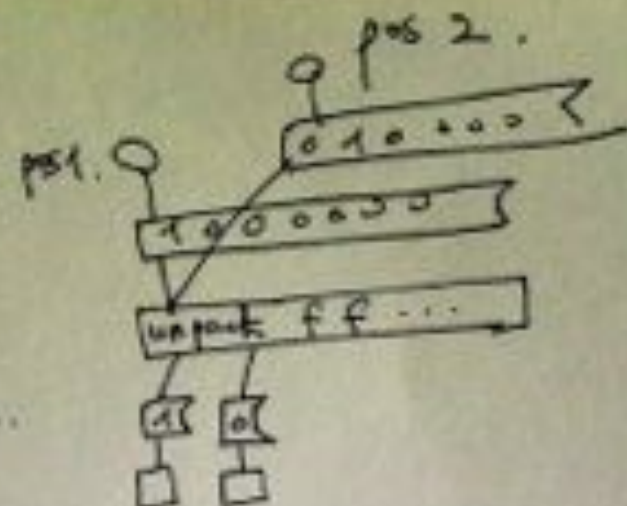
5V ~~out~~ digital



==C

pos 1.
 0E 0E 0E 0E 0E ...

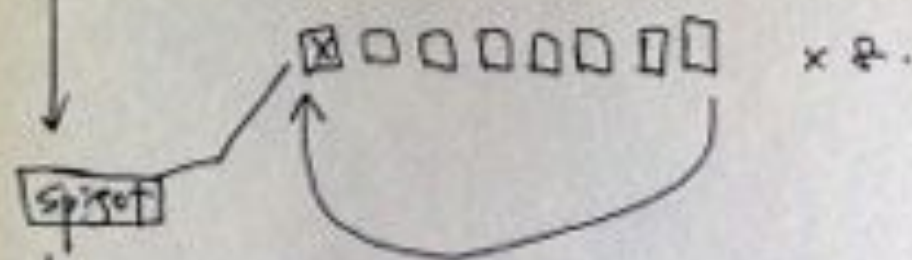
pos 2.
 0E 1E 0E 0E 0E ...



STP-ABSel



manuelle ok.



unpack f f f f

in

1 2 3 4 5 6
 □ □ □ □ □ □

x 50

x 50

$$x 6 = 300$$

7 8 9 10 11 12 13 14 15 16 17 18 19 20

$$9 - 7 = 2 + 1$$

$$20 - 7 = 13 + 1$$

$$= 14$$

$$14 \times 100 = 1400 \quad \Sigma$$

1700

$$\text{ein. sat} : 5 =$$

$$32.09$$

* guide setzungen

≈ 33 setze

* lackierungen

x 10 setze x 50 mdf x 2 nicht doppelte

\$ VOF = HALLO

from

428
248

HALLO WELT!

H A L L O [] W E L T, !

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
inA inB inC inD inE inF inH inI inJ inK

HALLO WELT
- s - f - s -

* Echtzeitig

* rekursiv geg.

*

\$ printf "\$VOF" | od -t c | read addr
num \$\$ echo \$num > top.txt
echo \$(top.txt) | paste post l.h

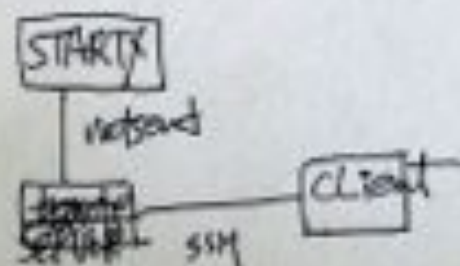
echo ".signal.txt" > /dev/ : ^{alle} zusammen bringen.

Suchwort : position wählend

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Modus 1. ansteigend H

durch paste auch in SSH

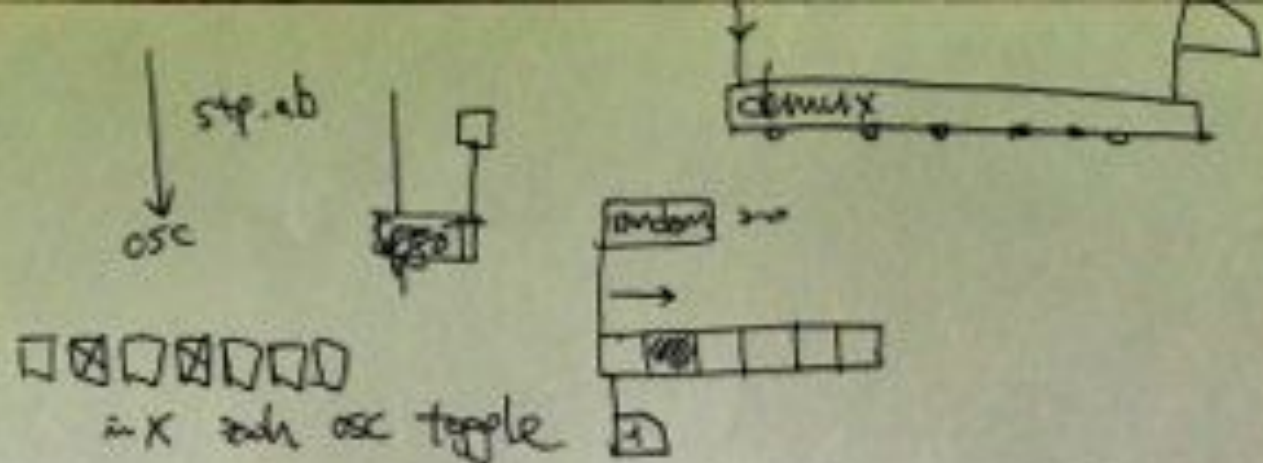


echo HELLO_WELT\; |
paste zum localhost

external Konfigurationen Adress 2/SSH
in Shell y to network
skript

HALLO!

72 73 74 75 76 77 78 79 80 81 82 83

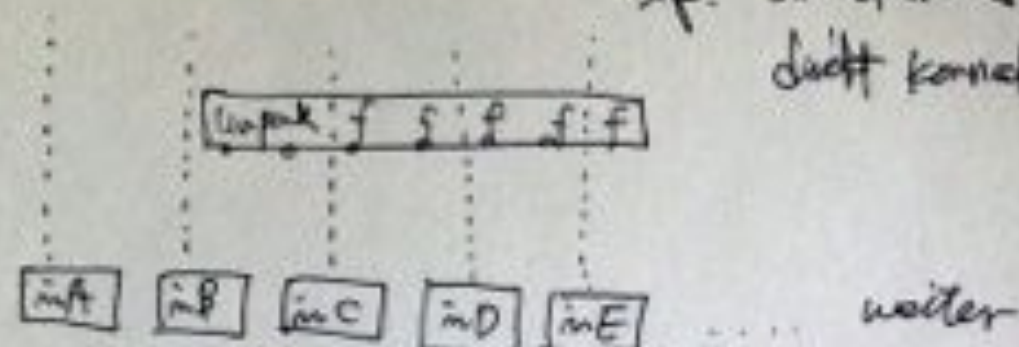


> manuelle modus <

multi input möglich? gebraucht?

> automatisch modus <

Seq. simultaneus input
nicht korrekt zu inX



String : sendOSC in STELL

realtime : input kotationen werden müssen / einfach
STP. Absol

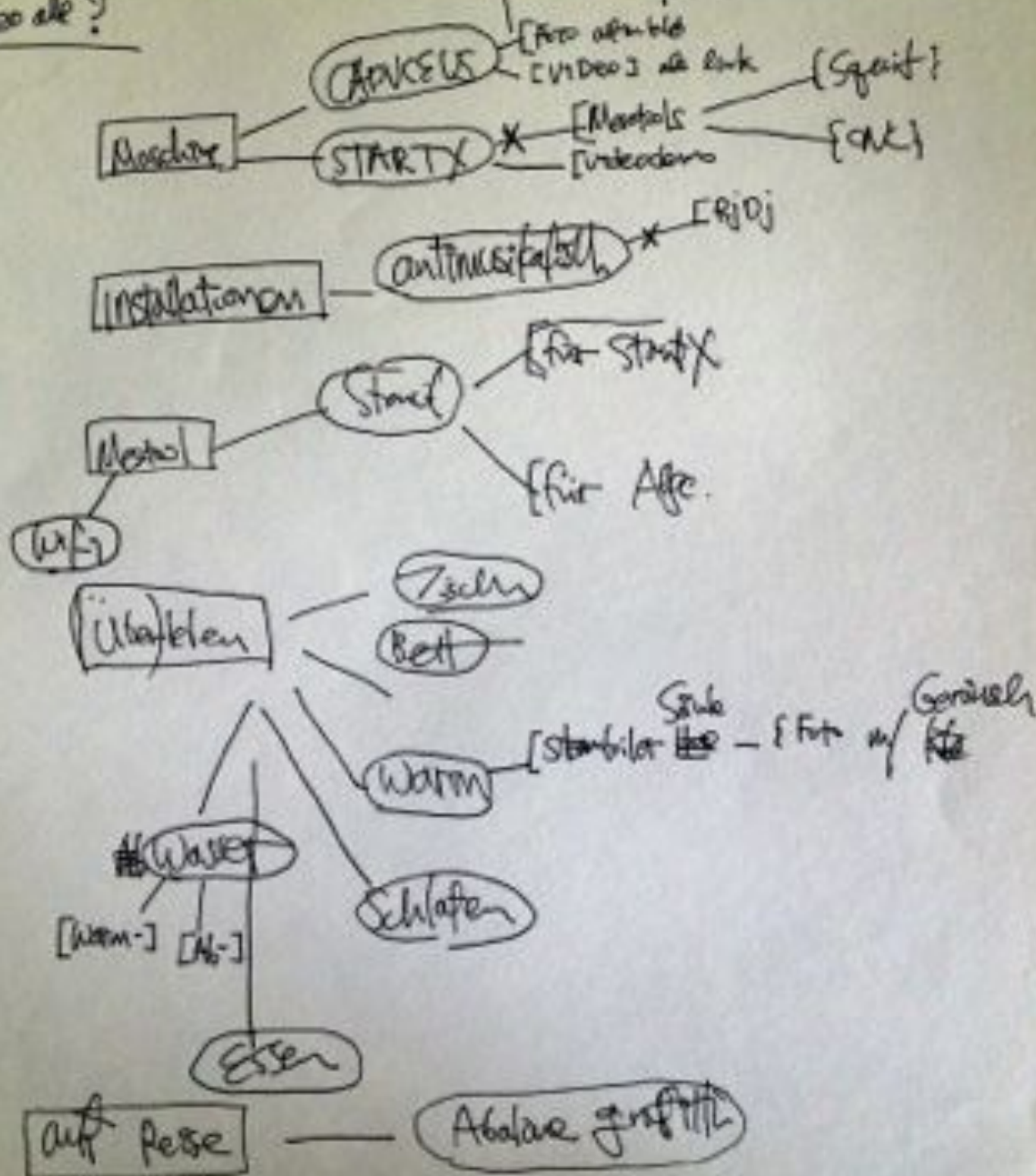
manuell
automatisch →, ←, random



Wirk in progress
 (PR in progress)

im Vergleich auf dem
 Wert "Arbeit"

! Video alle?



Wodkts bay nur bay nur. / even

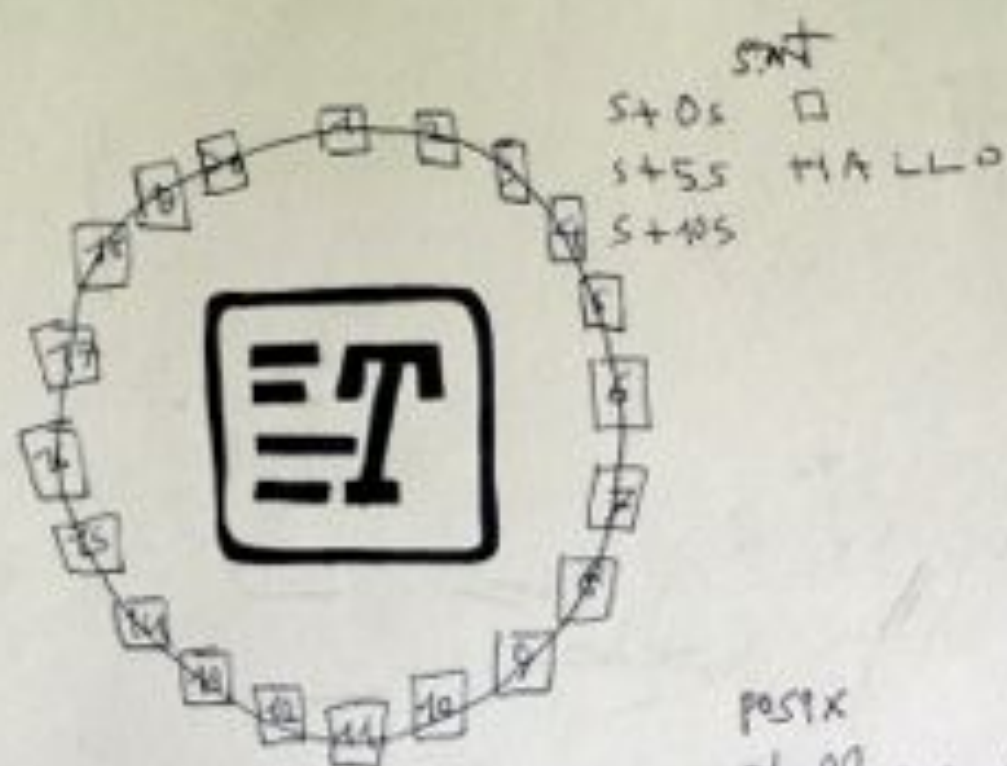
Bunde Uo

Copyright Verletzung inklusive.



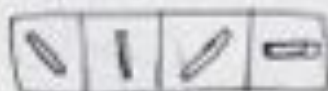
auf punkt 5 Kfz

Nik Narak



Real-time test
TDO/Tr
IP-Relay

posix
Shell animation



~~Poster~~ Dokumentation

Arbeitsplatz Foto

Absolone Graffiti Foto y etc.

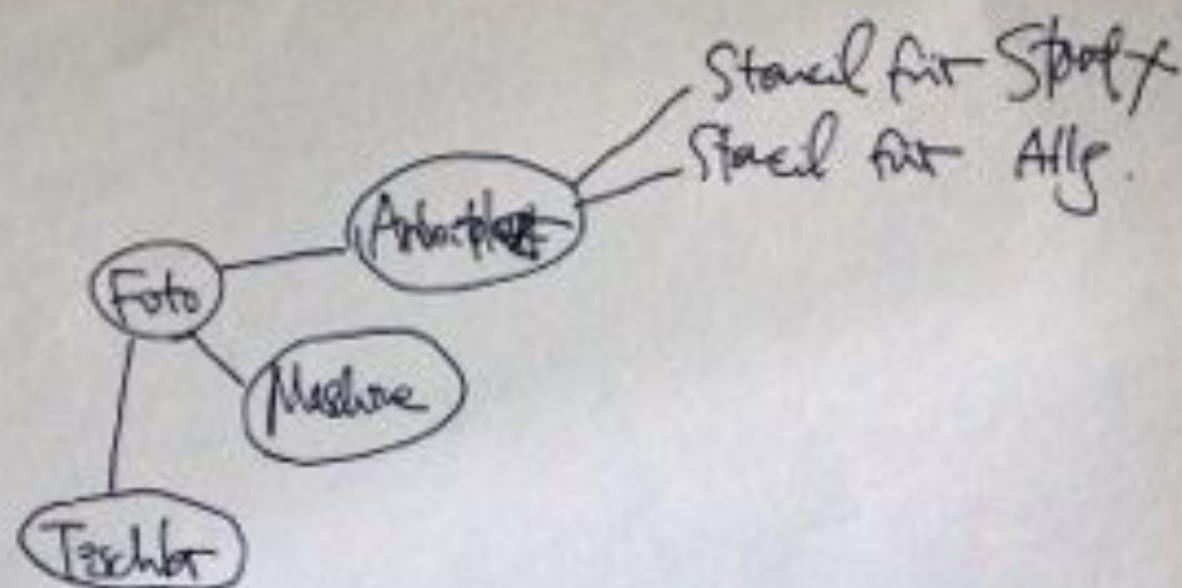
ADUCEUS

STARTX

Geräusche - AntiMusikalisch

Anonymus Zeichner N°6 Zeichnung

Video

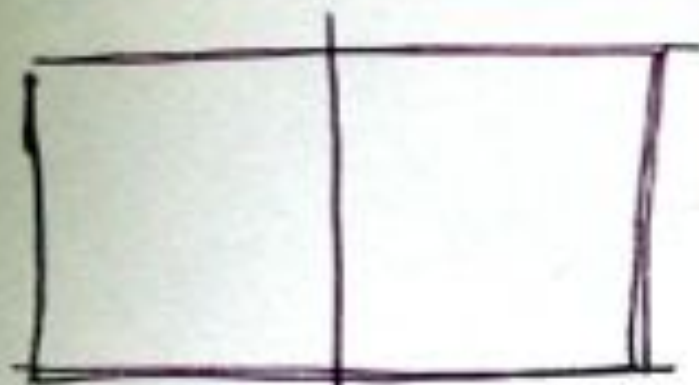


EDIT getrauert?

montage

kollage

non-linear



Kontroll

view

allegorisch?

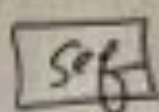
ob wir als die Theorie des Existenzial
für was kann sie machen?
Wahrheit & responsible.

Suche die Situationen von Ange

Existentialismus & Macht



STARTER rpi



send OSC



LPMT

r OSC



KM.

r OSC

receive OSC



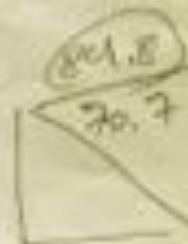
Tha tro. pd.

x. local setting

대나무 + 철 (2) - 다이나믹 x 4
공비도
보강대

Tobagi Masakatsu - Careda
"Girls"

2900
2320
2300
1200
8560



50

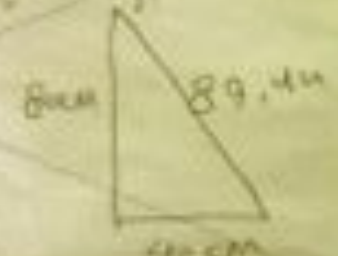
50

SCB3025 x 36 / 505704(50) x 72

1100 x 1160 (43 x 43) 24

30 x 30 profile (SP 70)
4 270 mm x 10
4 200 mm x 6
4 170 mm x 2
4 160 mm x 2

1100 x 1160 / 1000
(2)

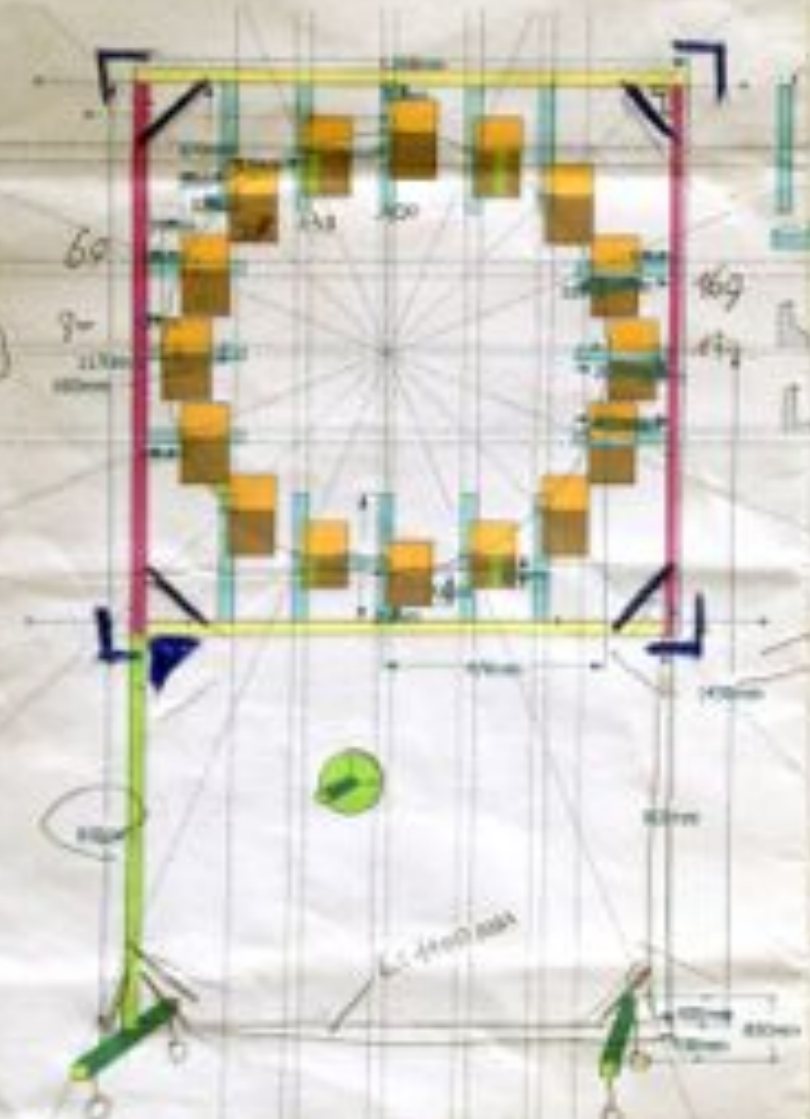


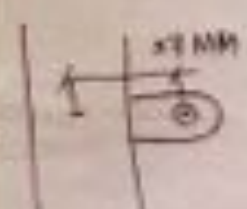
1100 mm
1160 mm

1. Oct. 2013



Miyuki >> I know you are but what is this?
Squid-purifier

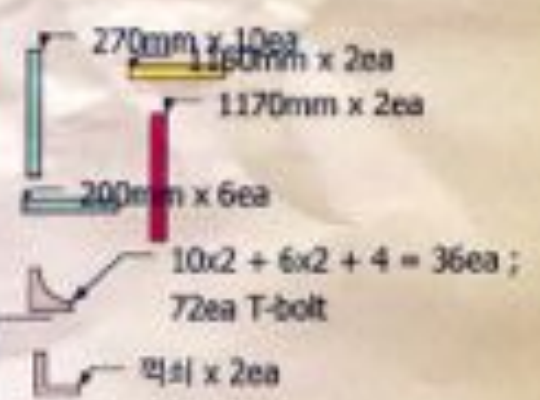
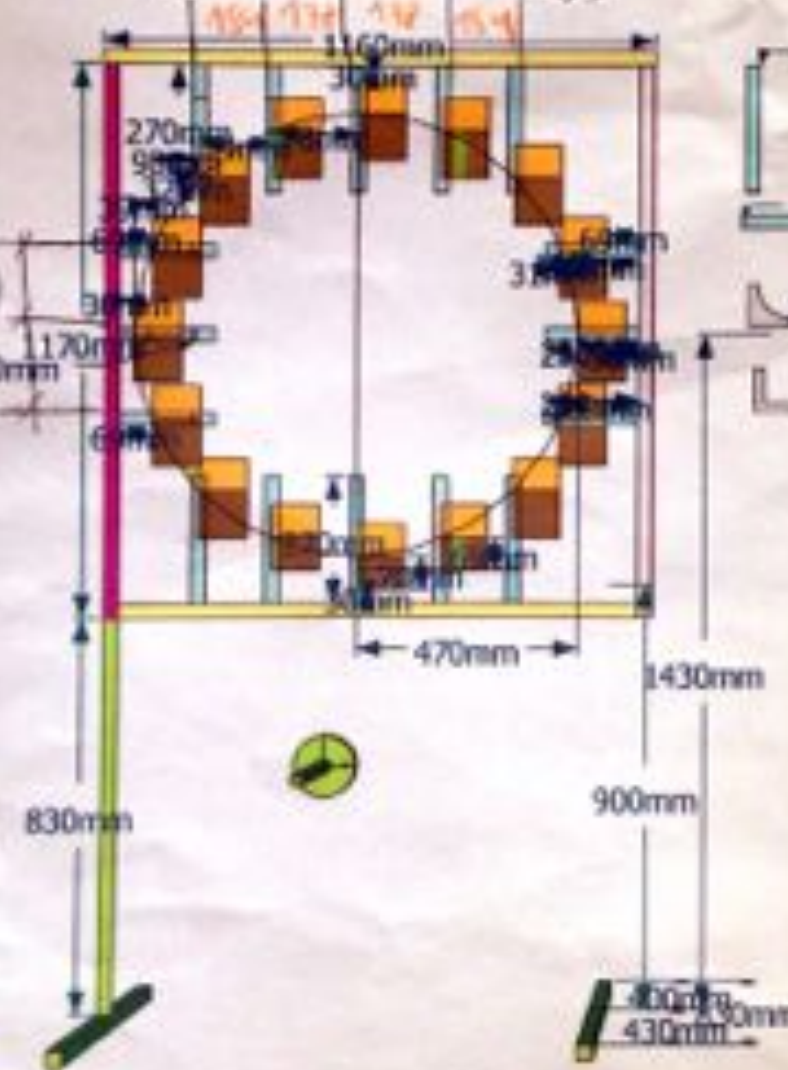




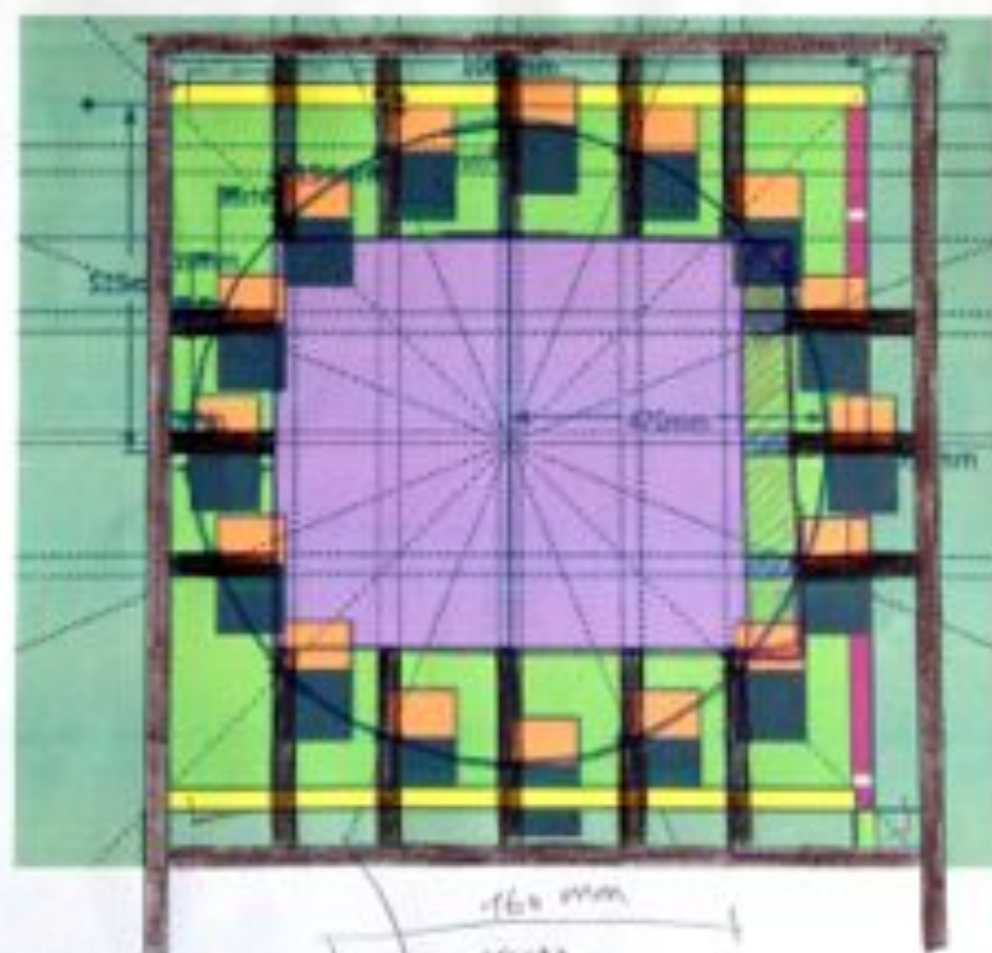
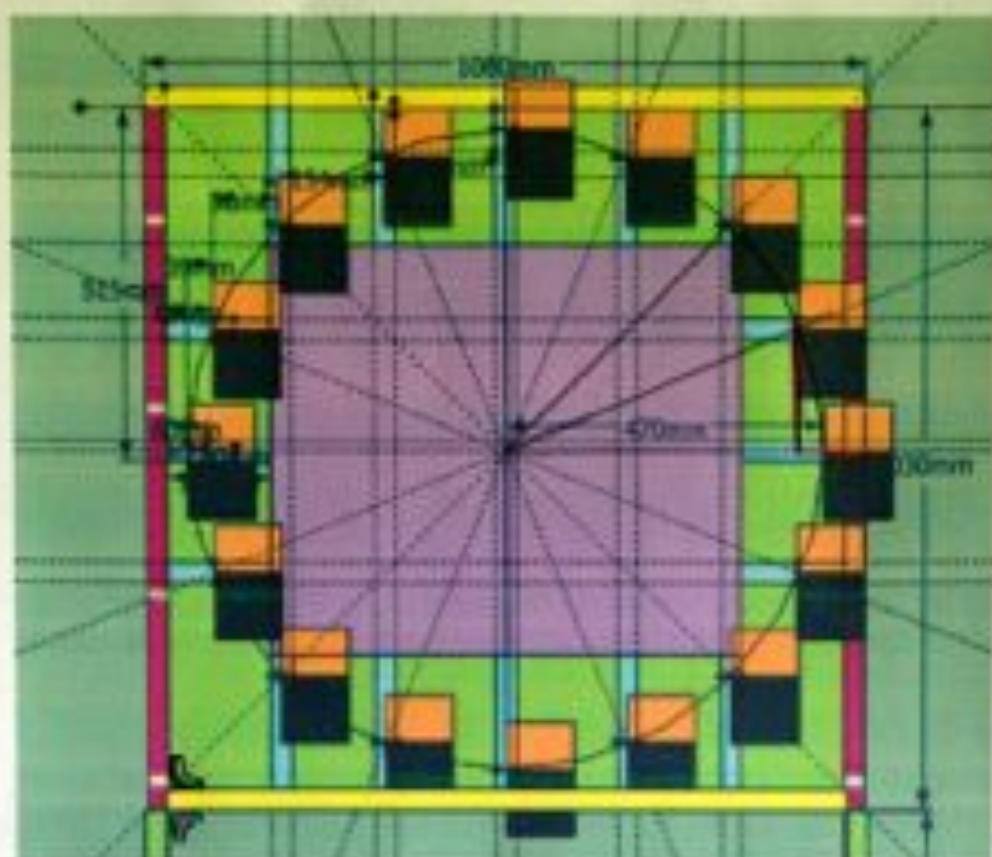
(↓ -27mm)

300 ; 607
22
434
(178)
(178)

(-27mm)
156, 300 ; 488 ; 464
183 337 515 437 ; 310
283



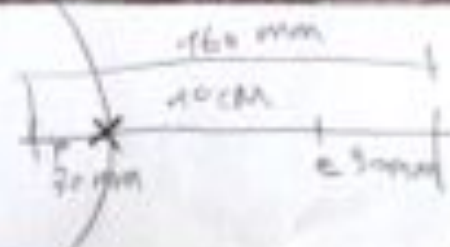
시비아 등기
10910

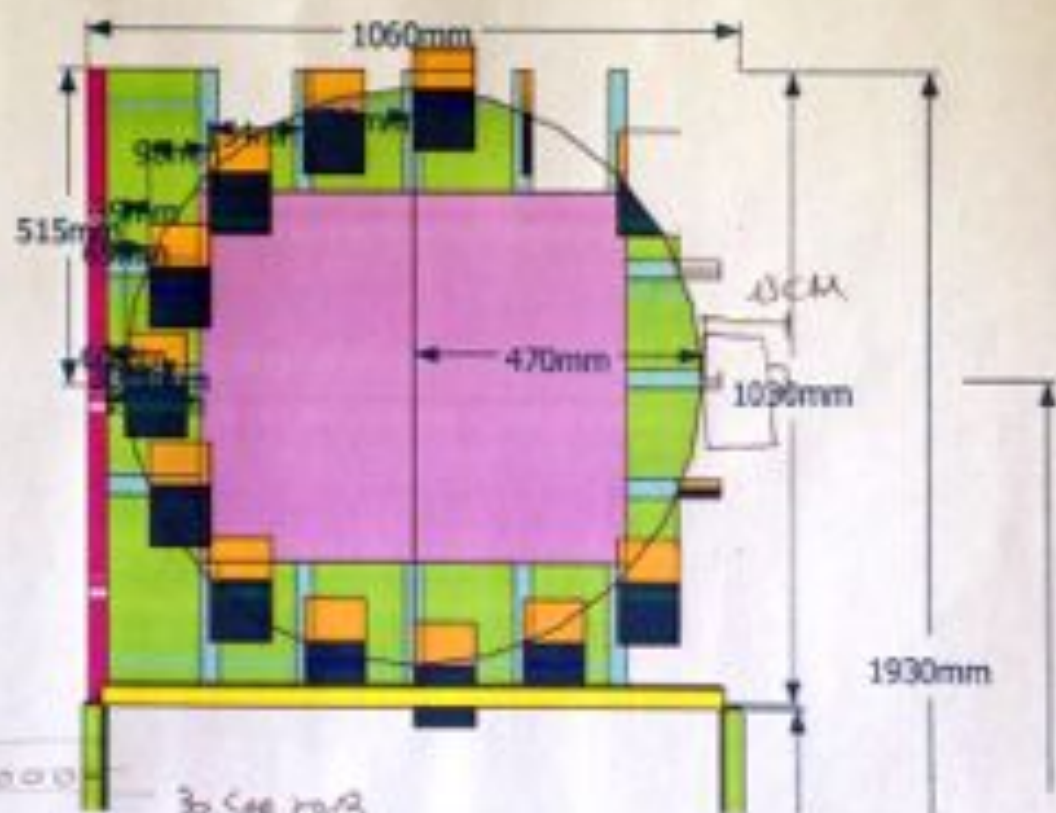


$$\begin{array}{r} 9 \\ 20 \\ 12 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 20 \\ 12 \\ \hline 32 \\ 4 \\ \hline 36 \end{array}$$

30 Sep 2013
2023





ABS/DEC 01/32 02/33 03/34 04/35 05/36 06/37 07/38 08/39 09/40 10/41 11/42 12/43 13/44 14/45 15/46 16/47 17/48 18/49 19/50 20/51

B ! " # \$ % & ' () * + , - . / 0 1 2 3

ABS/DEC 21/52 22/53 23/54 24/55 25/56 26/57 27/58 28/59 29/60 30/61 31/62 32/63 33/64 34/65 35/66 36/67 37/68 38/69 39/70 40/71

4 5 6 7 8 9 : ; < = > ? @ A B C D E F G

ABS/DEC 41/72 42/73 43/74 44/75 45/76 46/77 47/78 48/79 49/80 50/81 51/82 52/83 53/84 54/85 55/86 56/87 57/88 58/89 59/90 60/91

H I J K L M N O P Q R S T U V W X Y Z [

ABS/DEC 61/92 62/93 63/94 64/95 65/96 66/97 67/98 68/99 69/100 70/101 71/102 72/103 73/104 74/105 75/106 76/107 77/108 78/109 79/110 80/111

\] ^ _ ` a b c d e f g h i j k l m n o

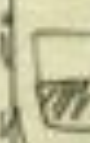
>STP; 1A

ABS/DEC 81/112 82/113 83/114 84/115 85/116 86/117 87/118 88/119 89/120 90/121 91/122 92/123 93/124 94/125 95/126 96/127 97/128 98/129 99/130 100/131

p q r s t u v w x y z { | } ~

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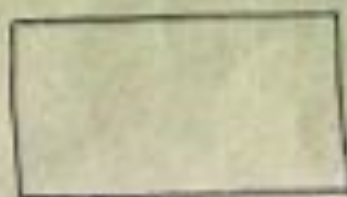
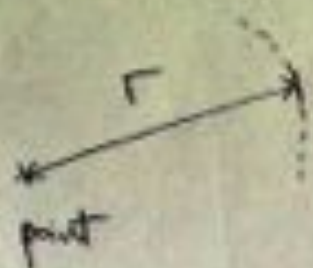


NETZ

0720 24. Montag. 2013.

Handy - XT sprechende Handy
das mit nur zwei Faktoren kann es existieren.
z.B. ganz klar

2129450
225000
1904900
08



indemokratische Quadrat
ist an.

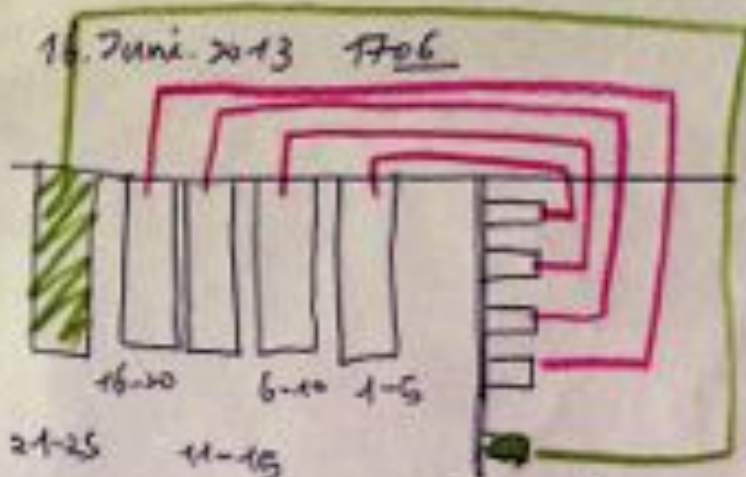
Gaven Friday

9495

6925839
- 9010465

7.3
9/16.1
24.5

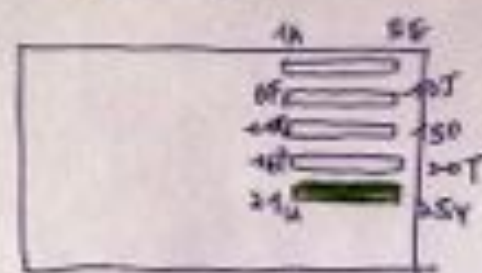
16. Juni 2013 17:06



für spätere

vorherige

nachher



~~1A-25A~~

[A1 B2 C3 D4 E5]

F6 G7 H8 I9 J10

K11 L12 M13 N14 O15 →

P16 Q17 R18 S19 T20

[U21 V22 W23 X24 Y25]

[U21 V22 W23 X24 Y25]

F6 G7 H8 I9 J10

K11 L12 M13 N14 O15

F6 G7 H8 I9 J10

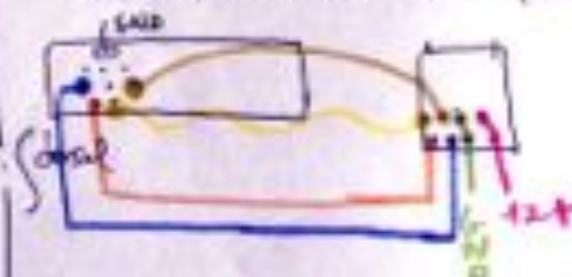
[A1 B2 C3 D4 E5]

* Gebrauchtes
+ Nachfolge

freige

* 18. Juni 18:30

Vision konvention für Platte



10. Feb. 2013 00:19

$$60 \div 2 = 30$$

$$129 \div 2 = 64$$

so, Das ist fast me als wie 30 Jahre alt!

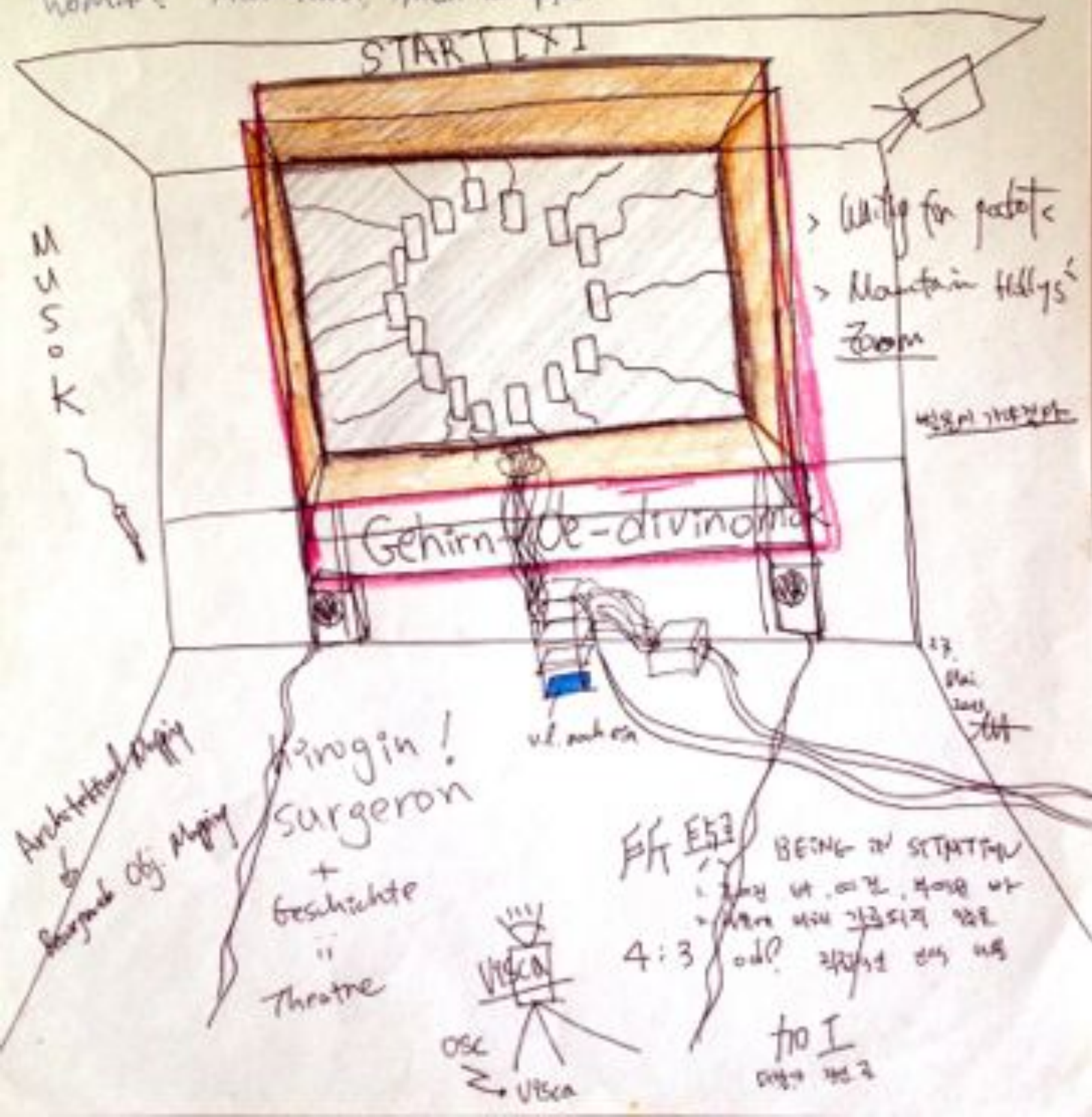
„Wie lebe ich?“ ist immer

etw. es mehr als „Wie werde ich tot sein?“

Denken darüber y nicht zu viel anken.

Darüber nachdenken y nicht daraus gedacht werden.

Wohin? Mein Leben, mein Kampf.



20. Mai 2013 13.48

ASCII Value - (10) = 245 17P
24 bytes (space)

!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
8	9	:	:	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N
56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102
f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	{	
103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
}	~	95	96	97	98	99	100	begin (space)														
126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148

blanko = 95 96 ... 121 122
+ 6
Σ blanko = 32
32 x 20 = 640 Zb. od. eters

* 0153 15. Jul. 2013

MAIT 002 22. 12. (space)

→ make sh die (space) als erste Step

ad. Stärke Flip?

A. 0 (1P. ABS.)
33 → 2
32 → 1



* 17.33 17. Jul. 2013

ab 'a' bis 'y'

ab 'A' bis 'Y'

dam. 20 für strm. net

5
5
5
5
5



variable control char.

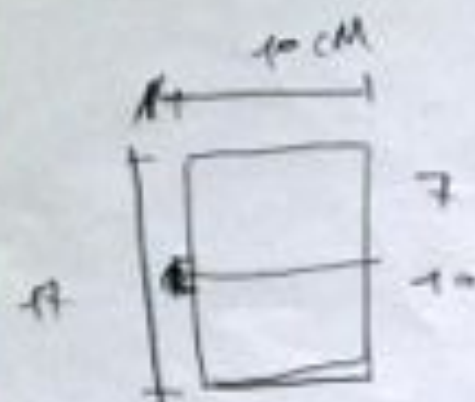
⊕
⊖
⊙

int
5000
1500
500

eg. support. setMaxSpeed (maxspeed);
setSpeed (normspeed);
setAcceleration (accelVar);

28. Sep. 2013 19:10

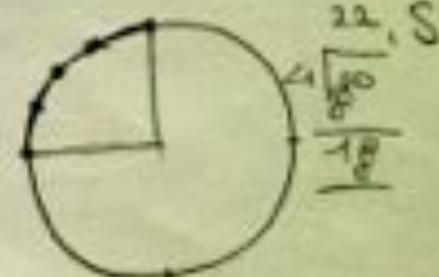
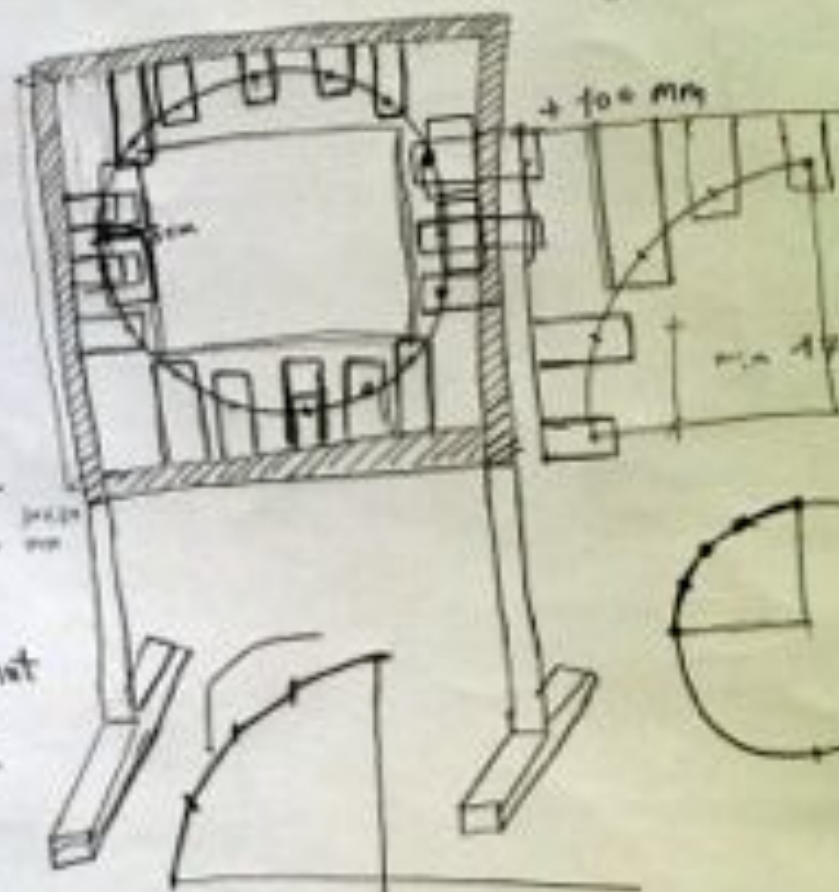
Flussfeld



± 6
100 cm

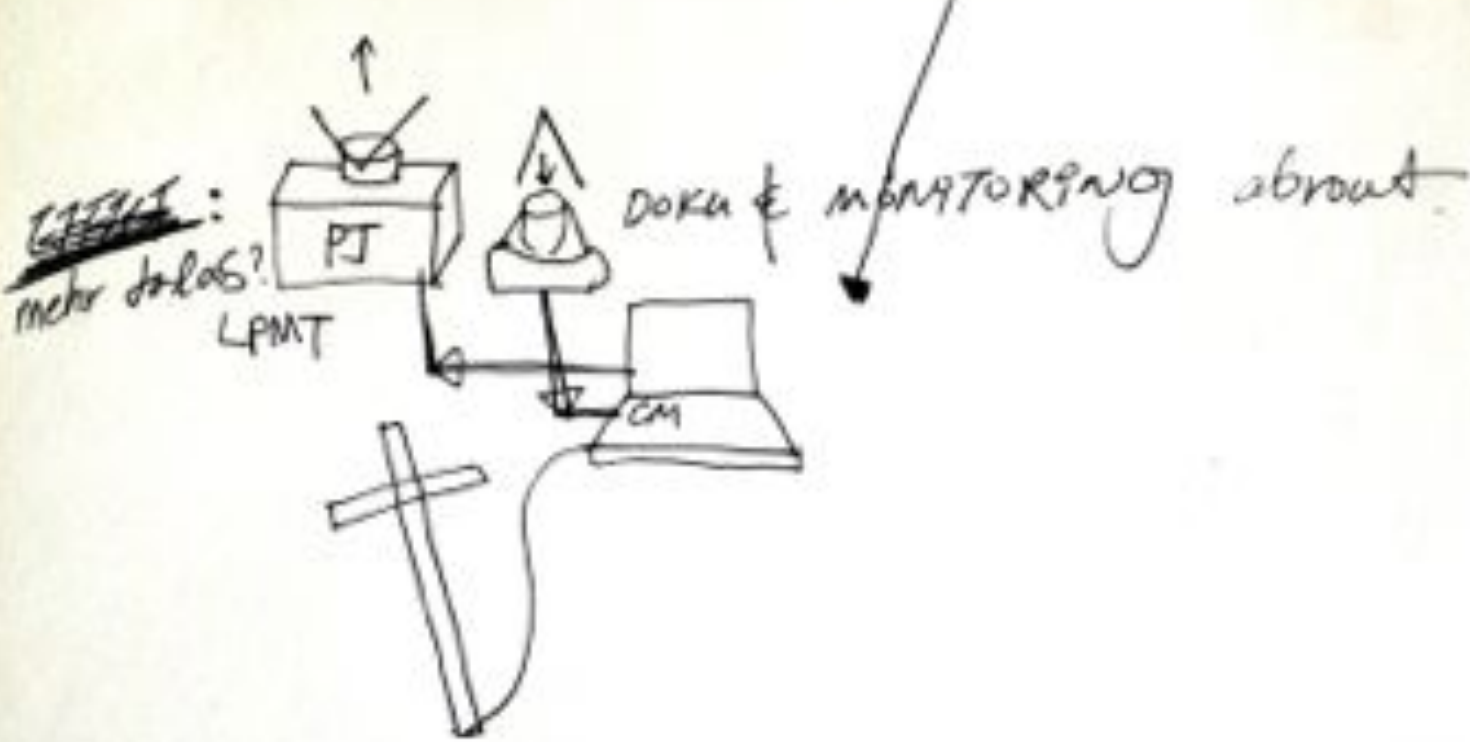
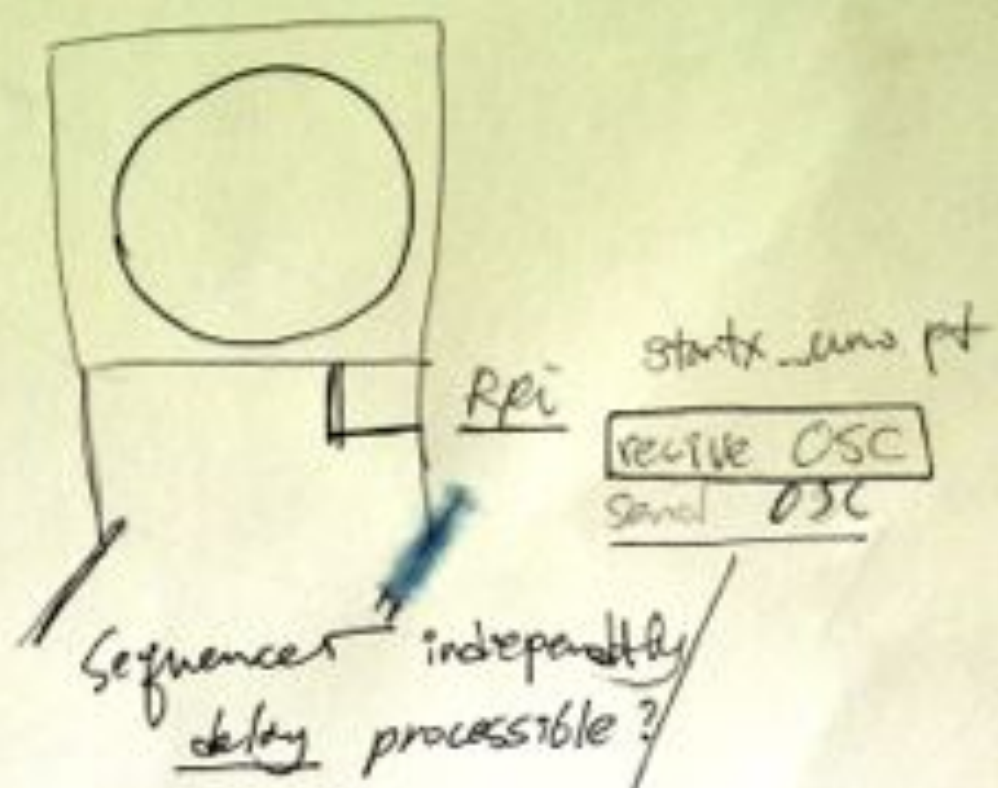


1. alle teile sind an einer Linie
2. 1/16 → 1/16

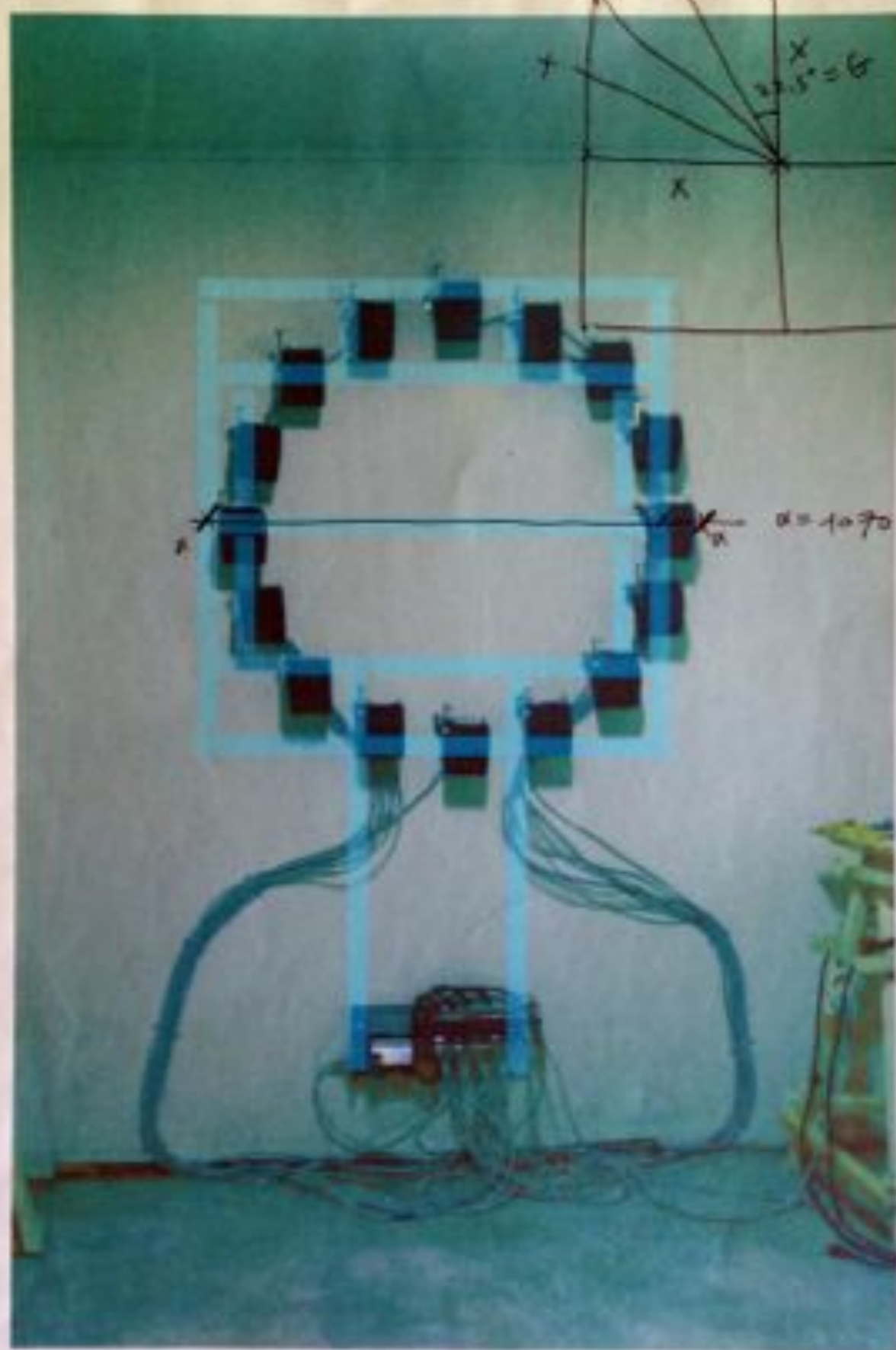


Soll '1/16' BSP
blank plane weg

$$\begin{aligned} \frac{\sim 307, \sim 302}{\sim 694, \sim 604} &= 1.149 : 1 \\ &= 2.29 : 2 \\ &= 4.596 : 3 \end{aligned}$$



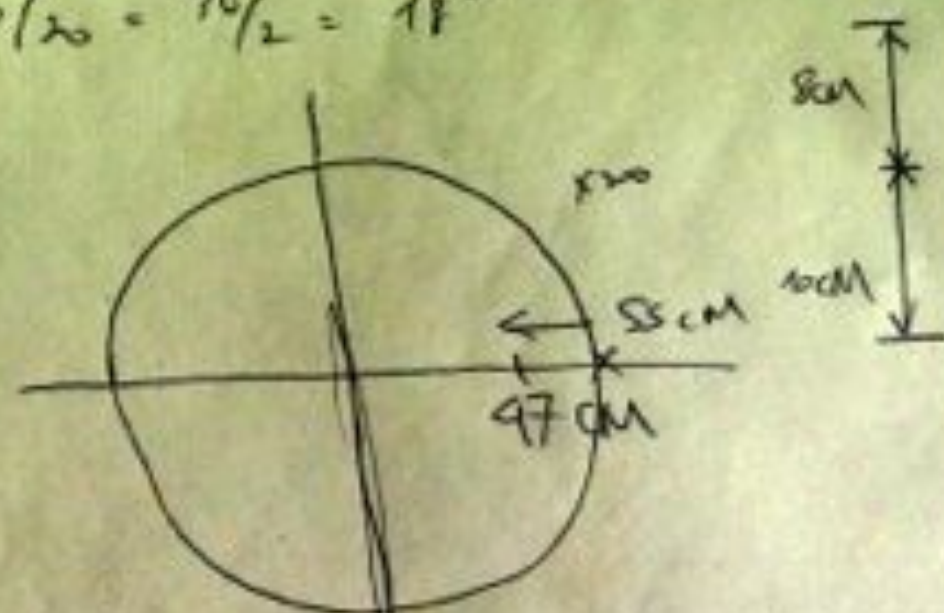
29. Nov. 2013
23 36



2774 23. Juni. Son 2013

x 20

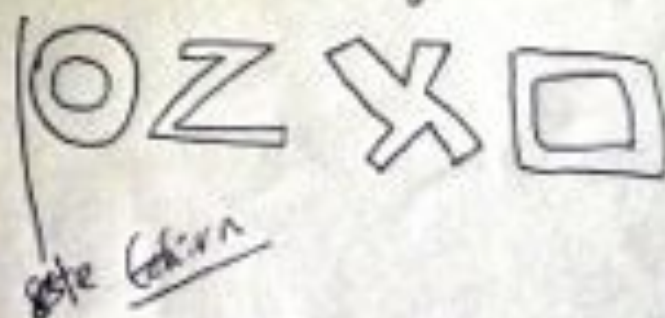
$$760/20 = 76/2 = 18^\circ$$



Versuch mal am Morgen.
mehr eng wollte ich.

warum diese Gestaltungen?

1	2	3	4	5	6	7
18						8
17						9
16	15	14	13	12	11	10



aktivieren UK

Karlsruhe für

betelrose @ gmail.com UK? & freiburg

umfanggrenz

$$500 + 280 = 780$$

Art 4



169.2cm



$r = 42.5 \text{ cm}$



75.66

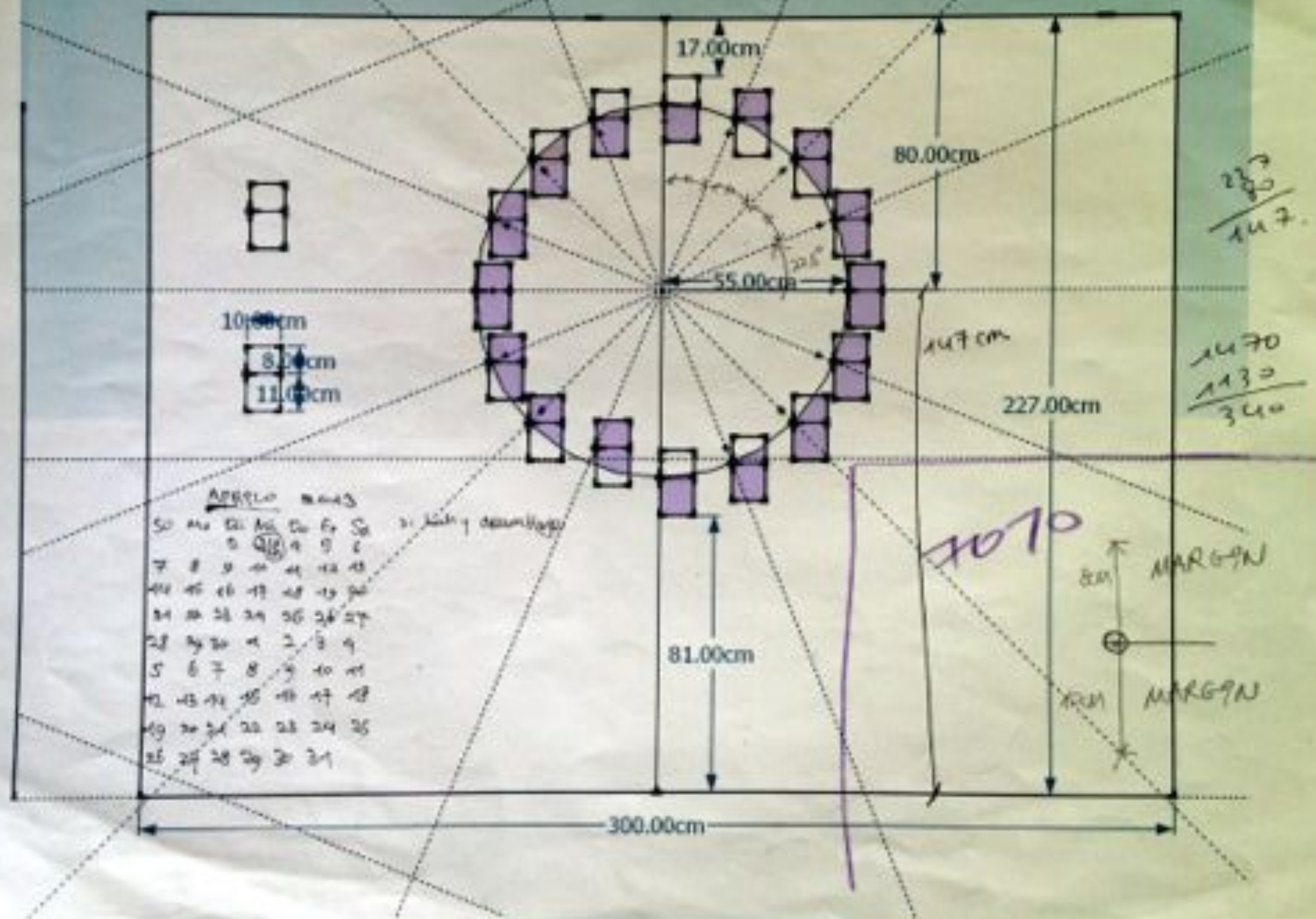
75.66

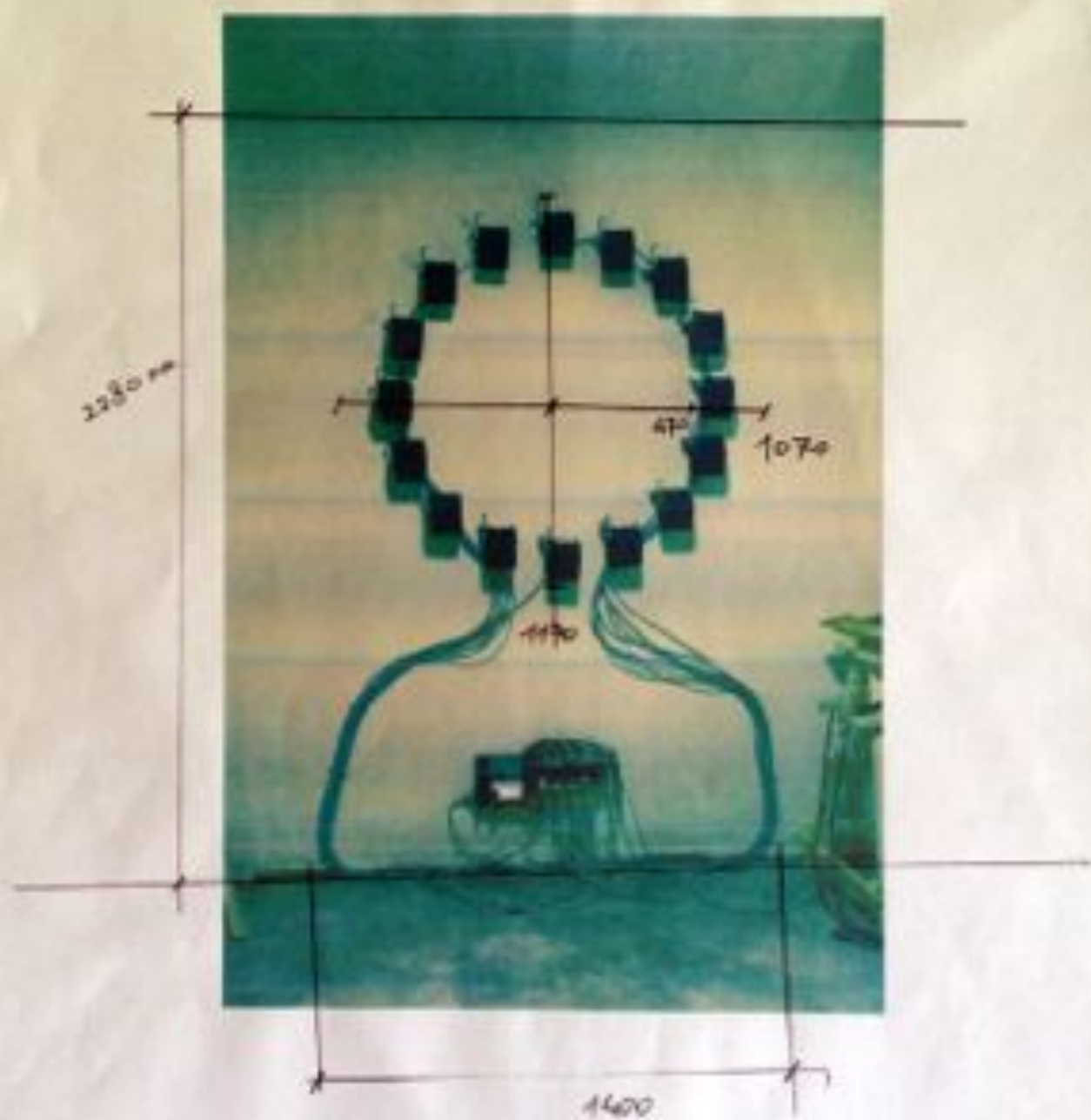
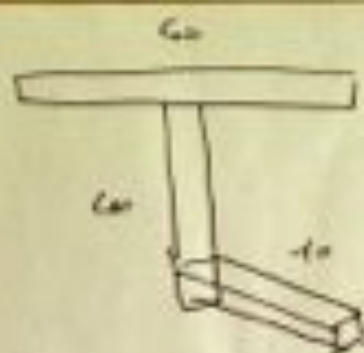


75.66

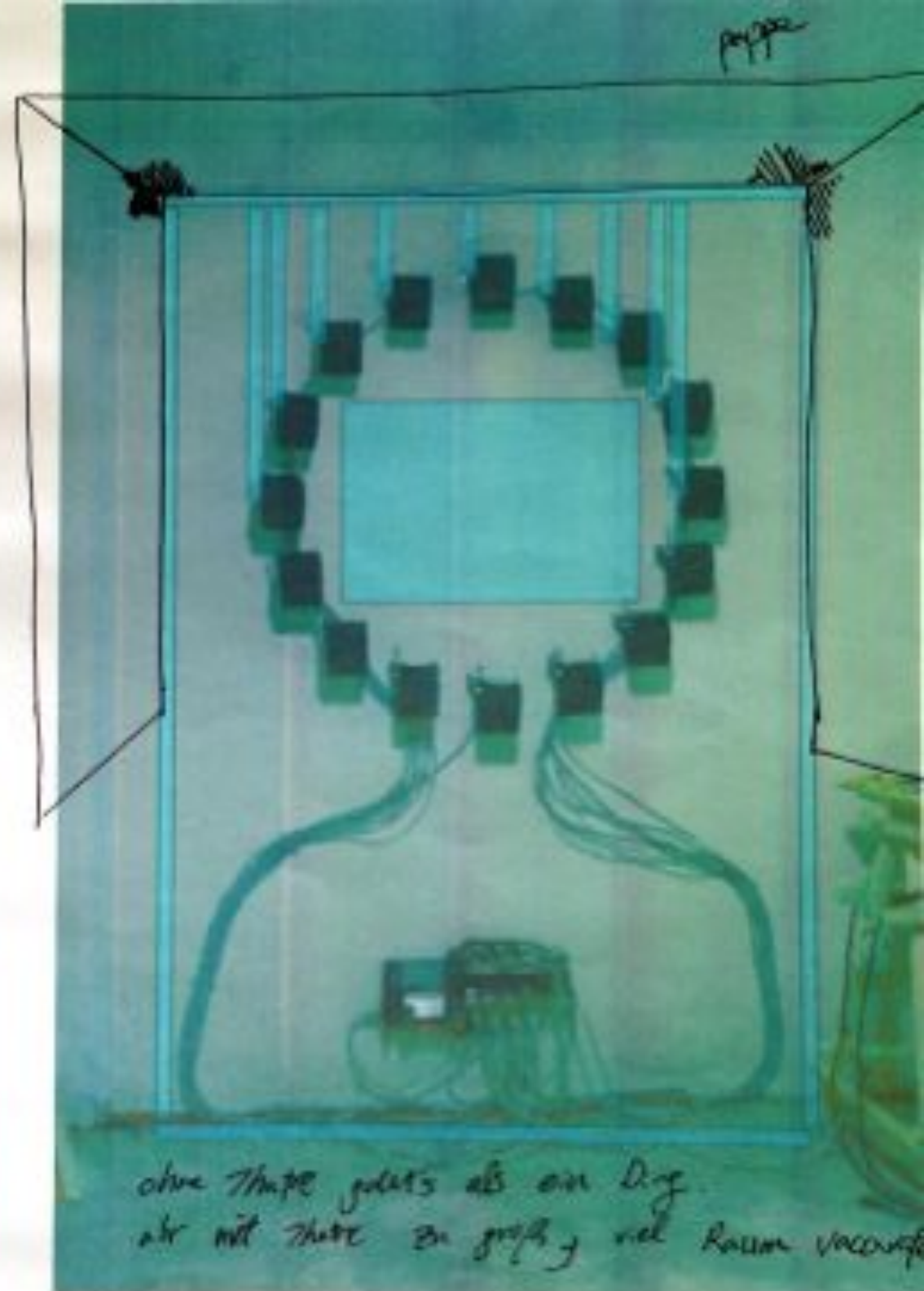
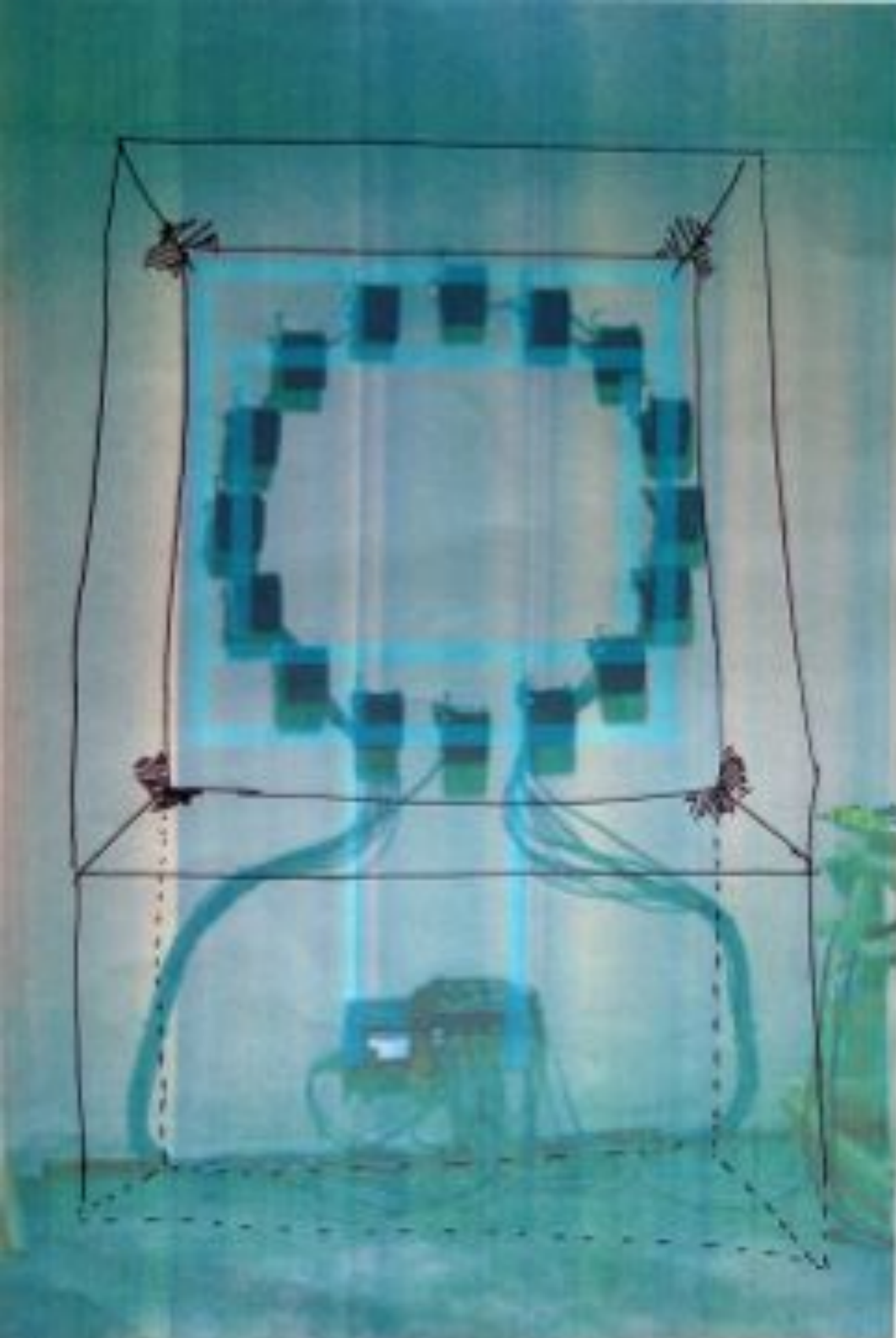
Una Cerda

2.4.2013

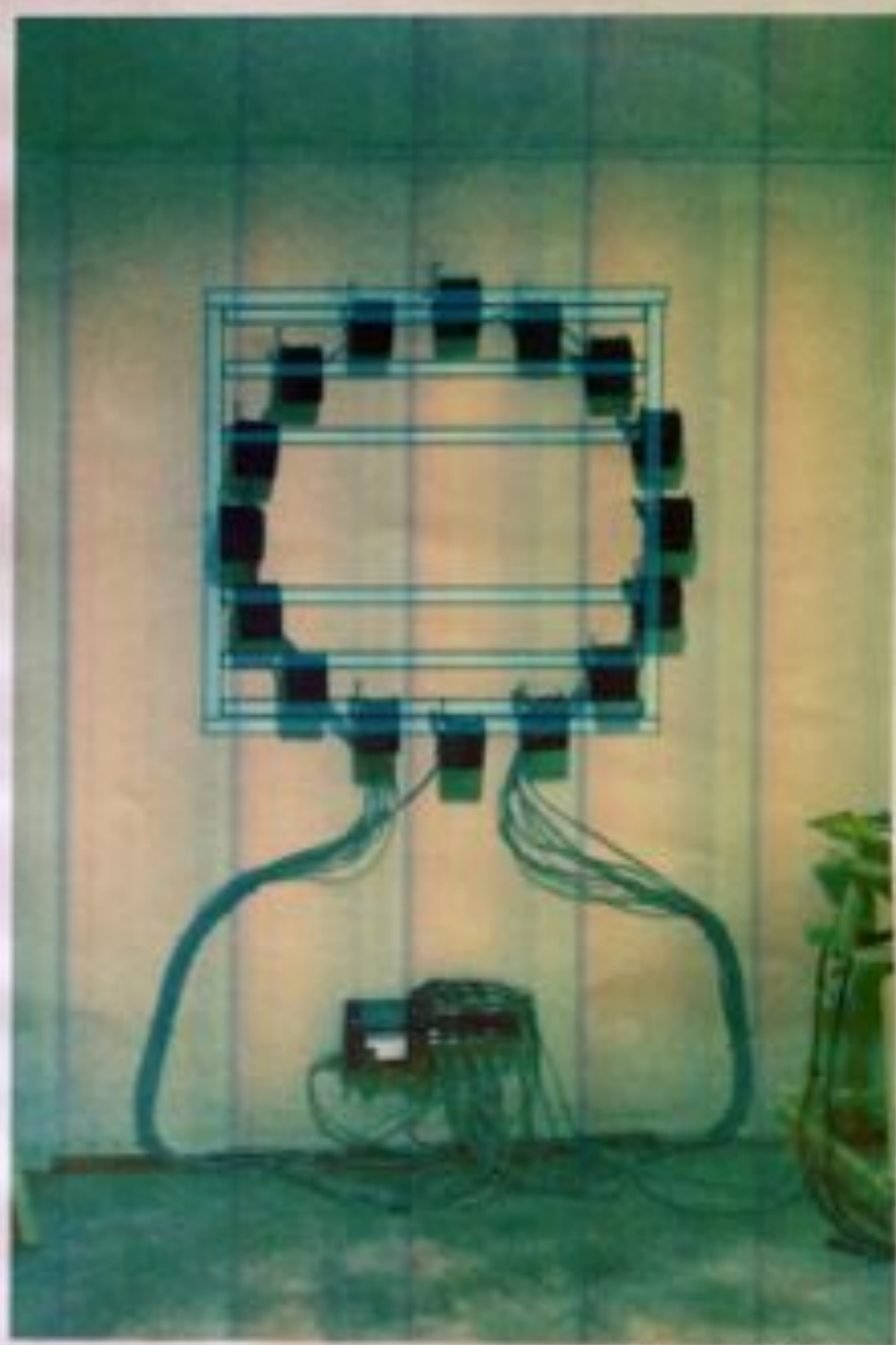
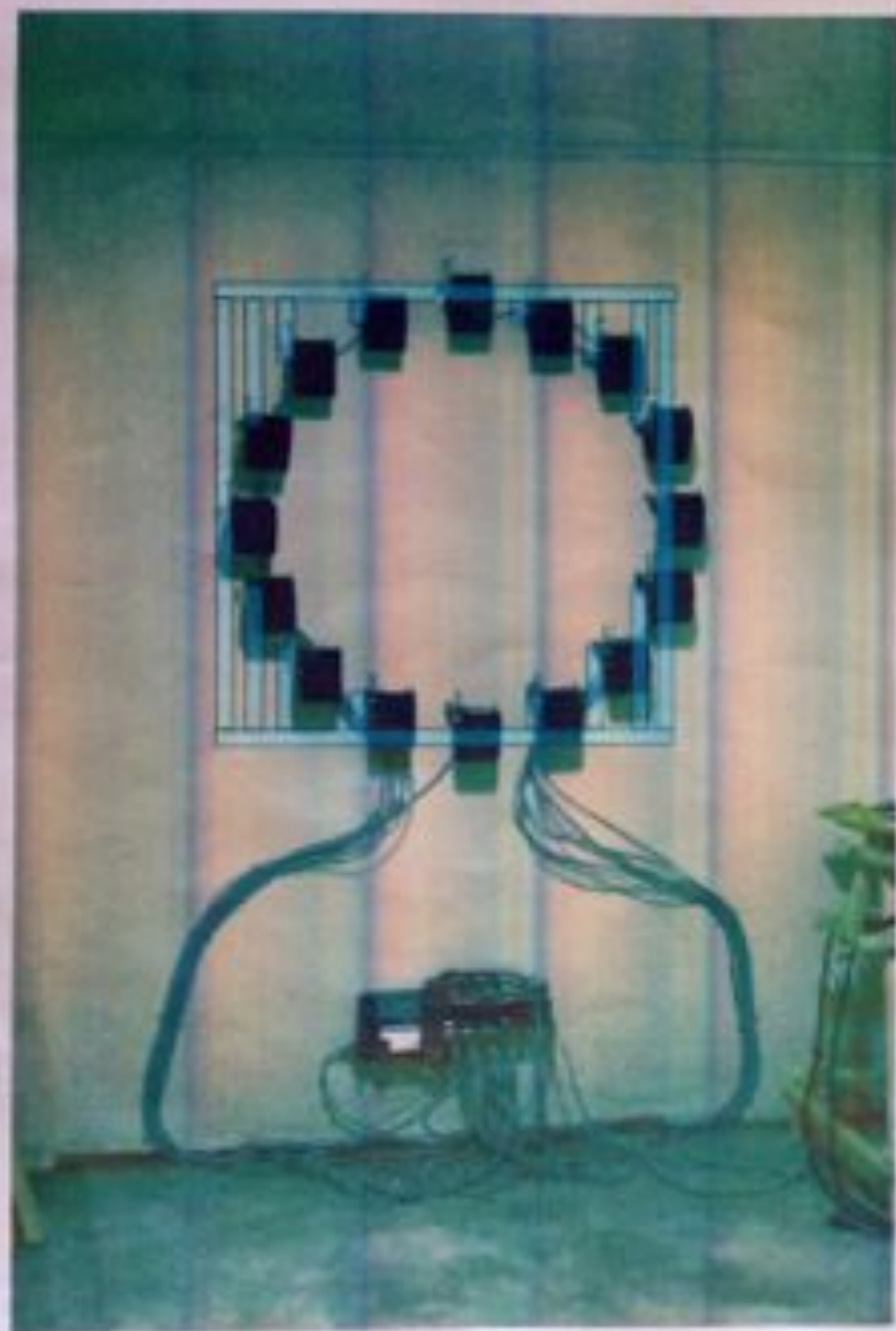


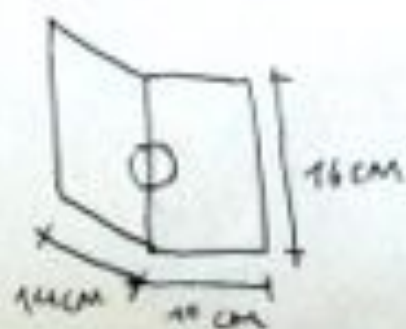
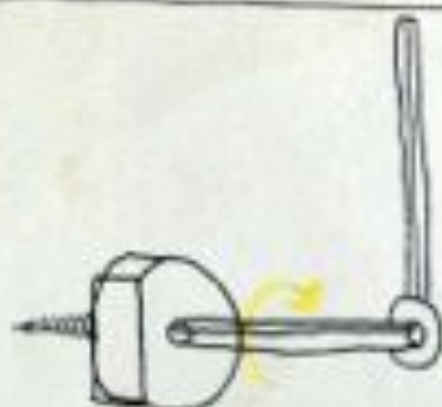
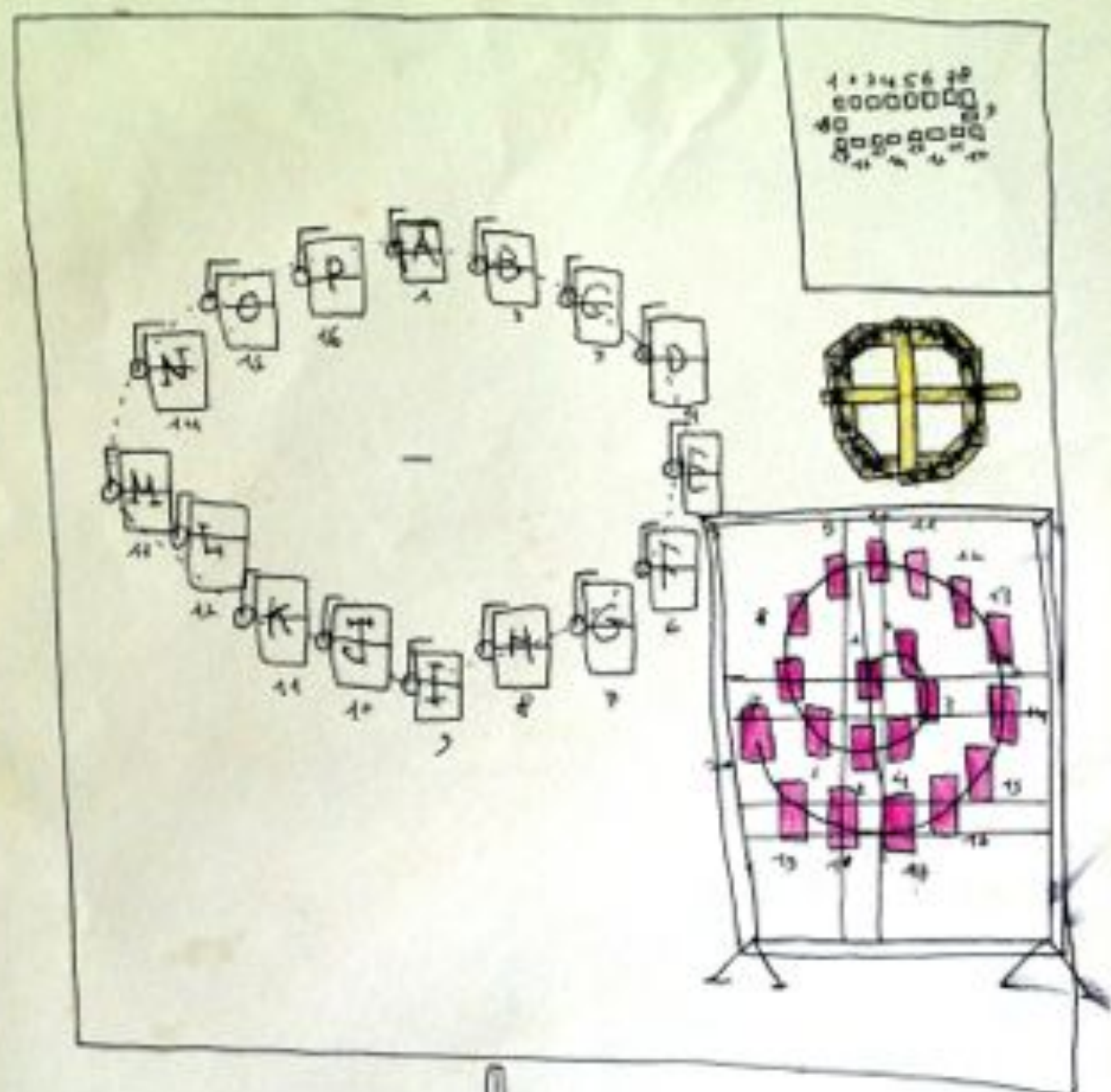












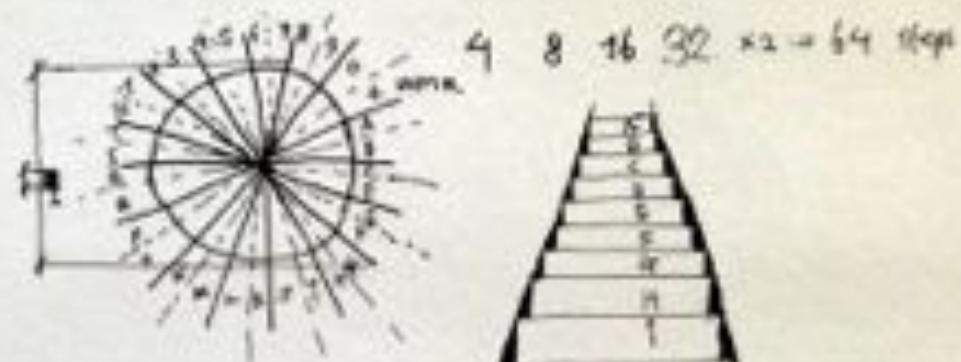


A O C B E F G H I J K L M N O P Q R S T U ~ ~ / @ # \$ % ^ & * () - _ + = { | } ; : ' " , < > ? / 1 X Y Z rum. 53

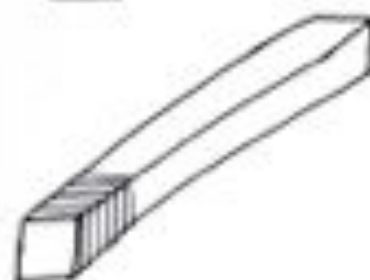
+ NUL

ii

54 rum.



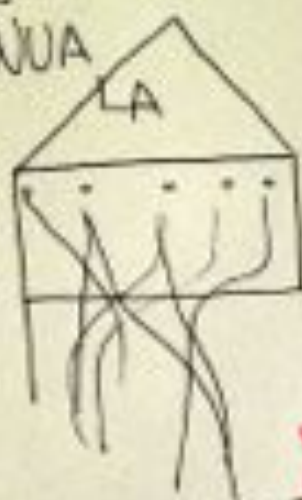
4 8 16 32 $\times 2 \rightarrow 64$ steps



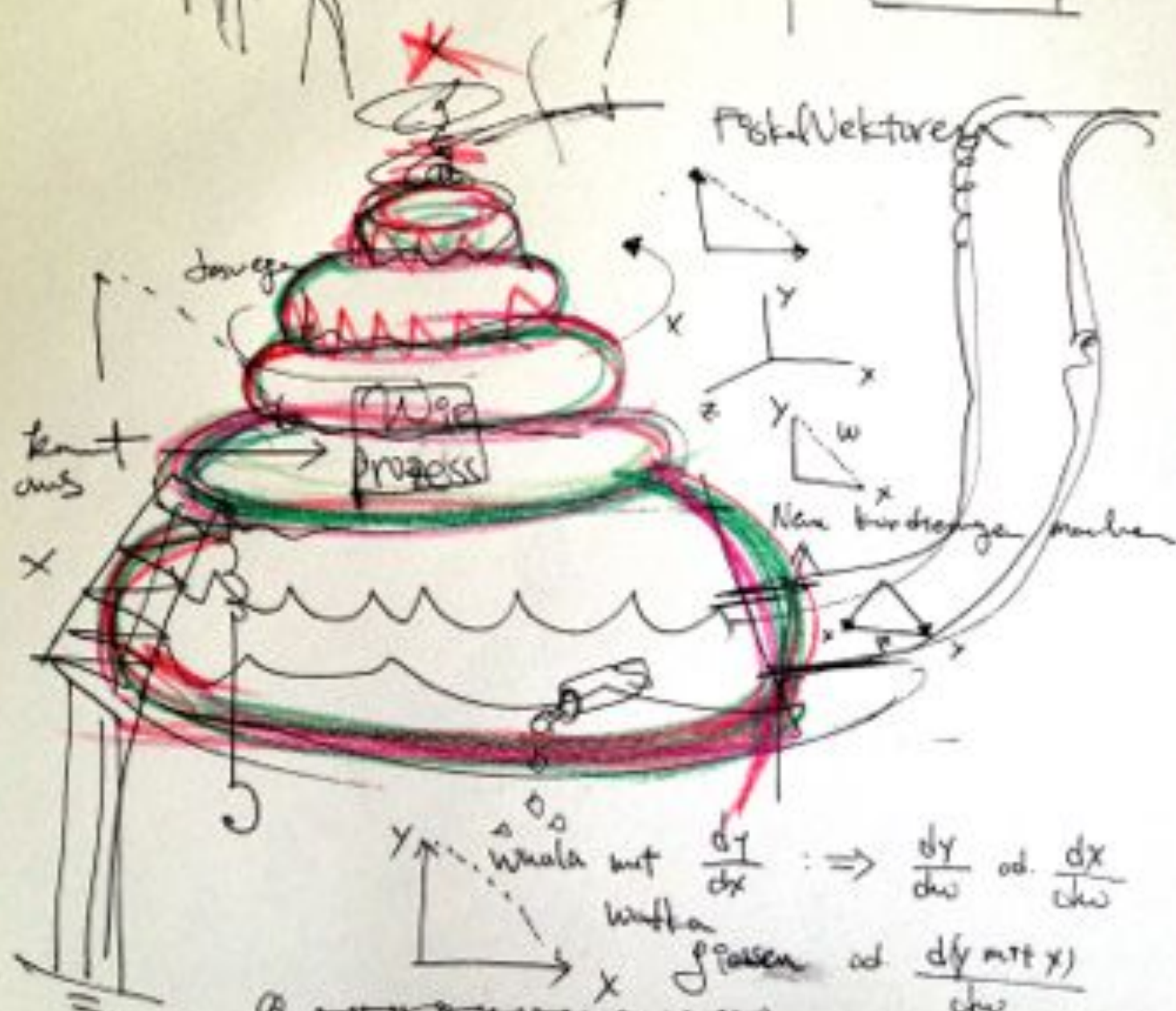
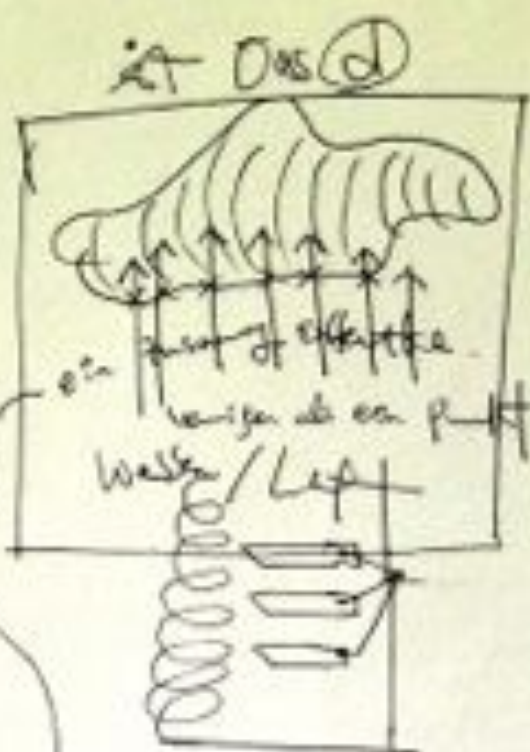
Sym. mal. Ja. wahl.

10 May 2010

Gürtel
Hautfalten
Ja
WUA

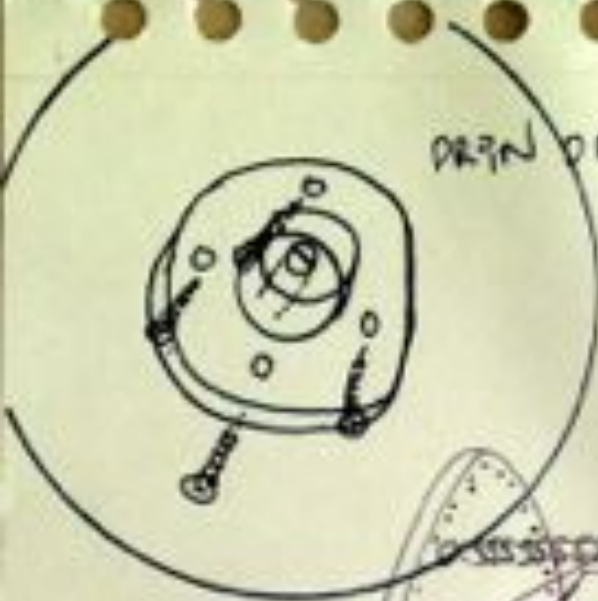


Pb

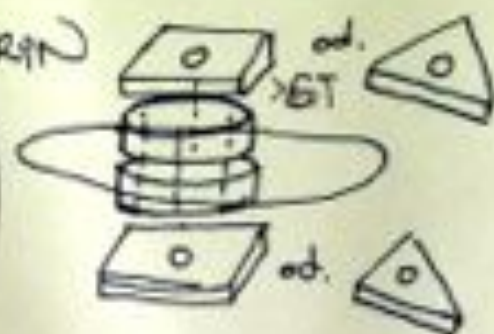


REVOLUTION

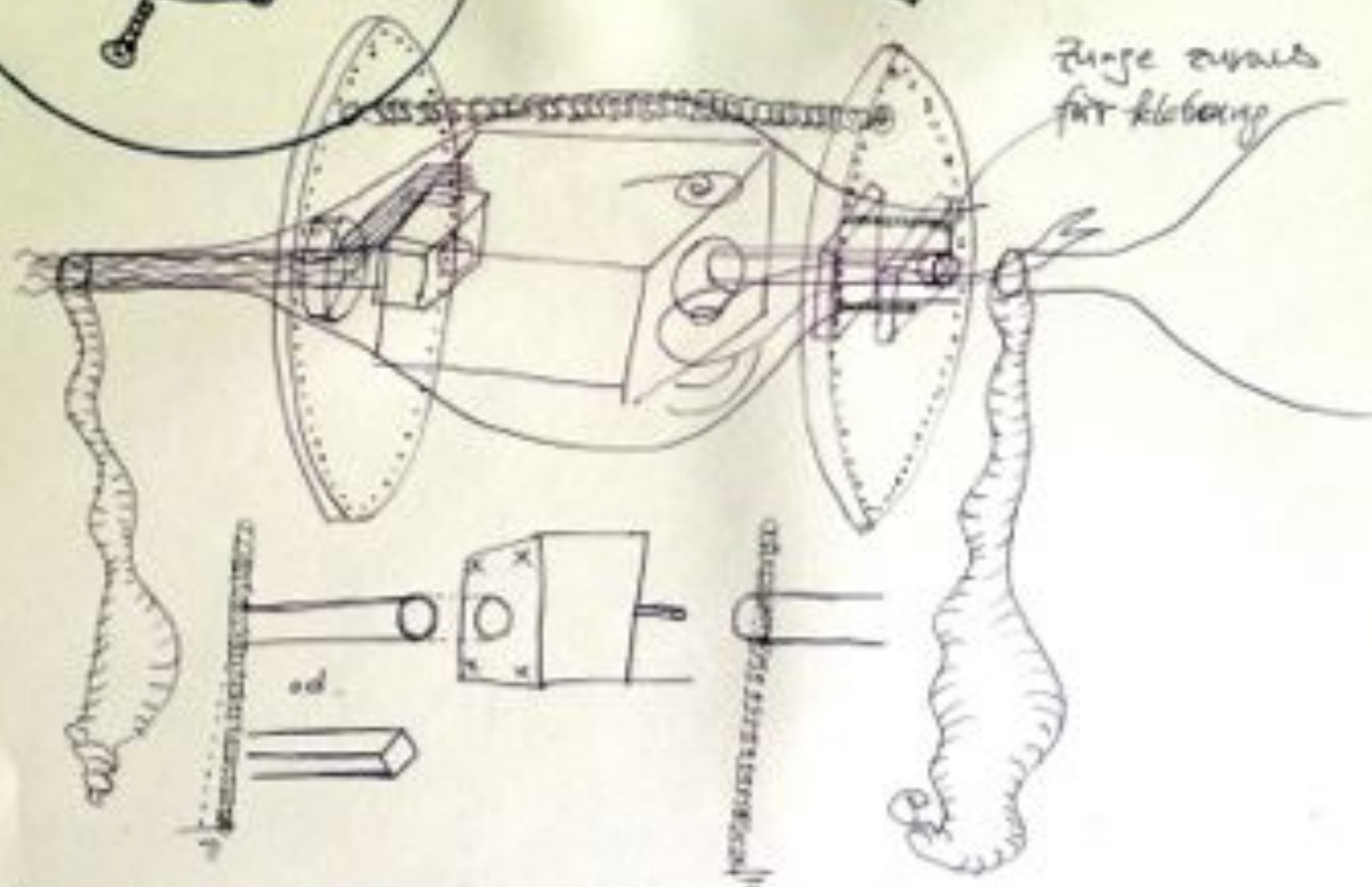
(Bitmap, Tuetype, Vector, Illusion, Bewegung) selbe. ein Wort. Illusion



DRIN DRIN



Zunge aus
für Klobung

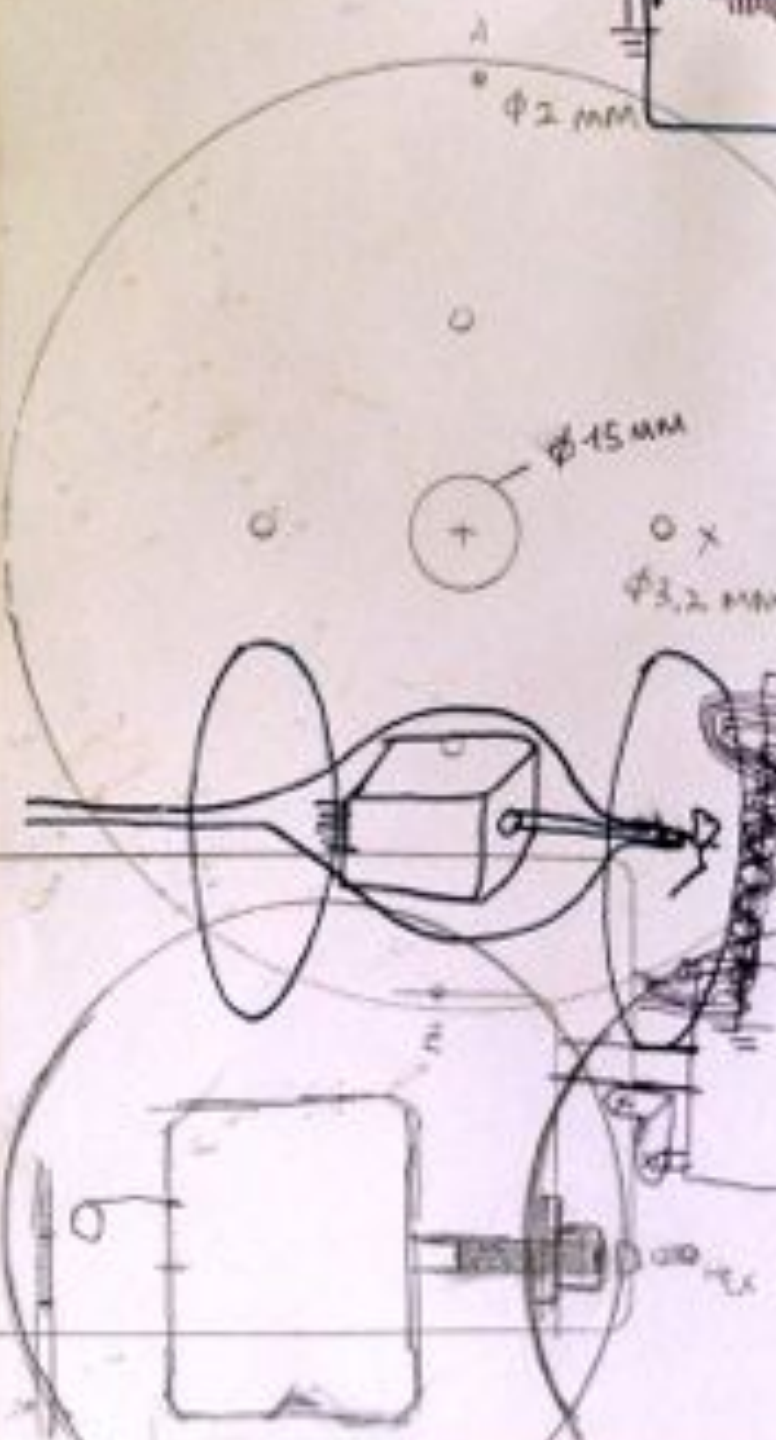
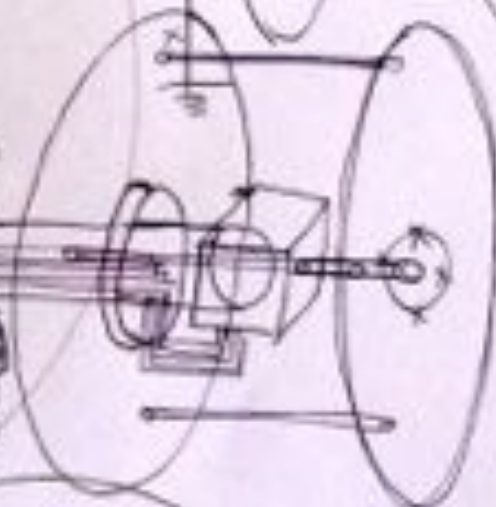
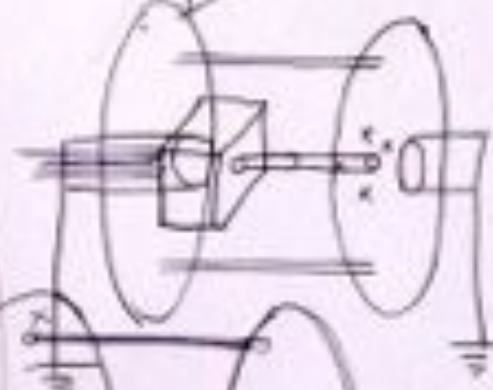
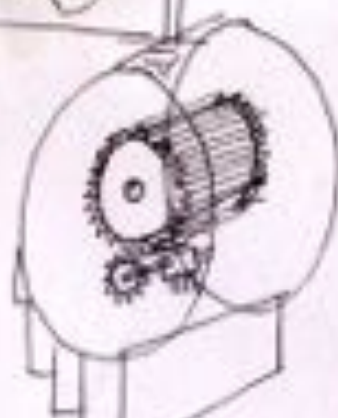
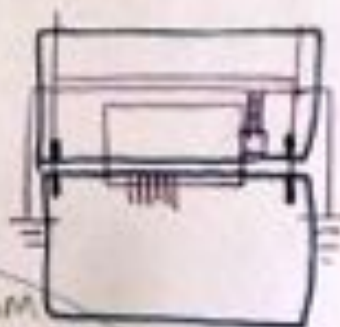
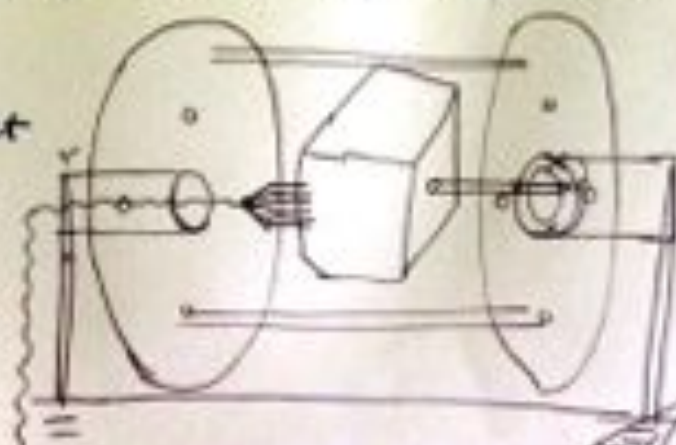
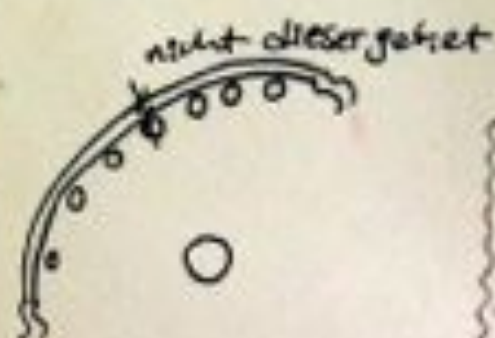


\$1 Subo pm us 3

\$2. route de <planobar
y que?

"HALLO SCHREIBE!"

DVD ist zu duse, & nicht available für lücke machen.
 → CD ist lesen.



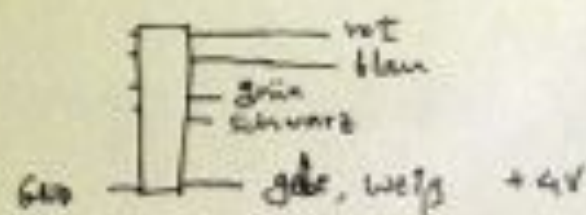
MODEL
 UK243-01AT
 1.8°/step
 $\phi 5$
 $\frac{D}{H}$
 4.5

9. Feb. 2011 27.28

N/A



blau	4.5	mit Com.
gelbe	4.7	
grün	8.5	
rot	4.3	
B	/B	



mar bis 500mA

S. $\rightarrow$ FET? iRFSO

VK 43-01 AT-Top

DC 4V

0.95 A / Phase

$R: 4.2 \Omega / \text{Phase}$

Inductance: 2.5 mH / Phase

H-torque : 1.6 kft/in

D-Torque: 420 ft/lb.

Rotasi Inertia: 389 cm^4

Weight : 200g

$$e_h = i \cdot 4 \text{ volt} / 42 \Omega = 0.92 \text{ A}$$

> So ma is just as cool

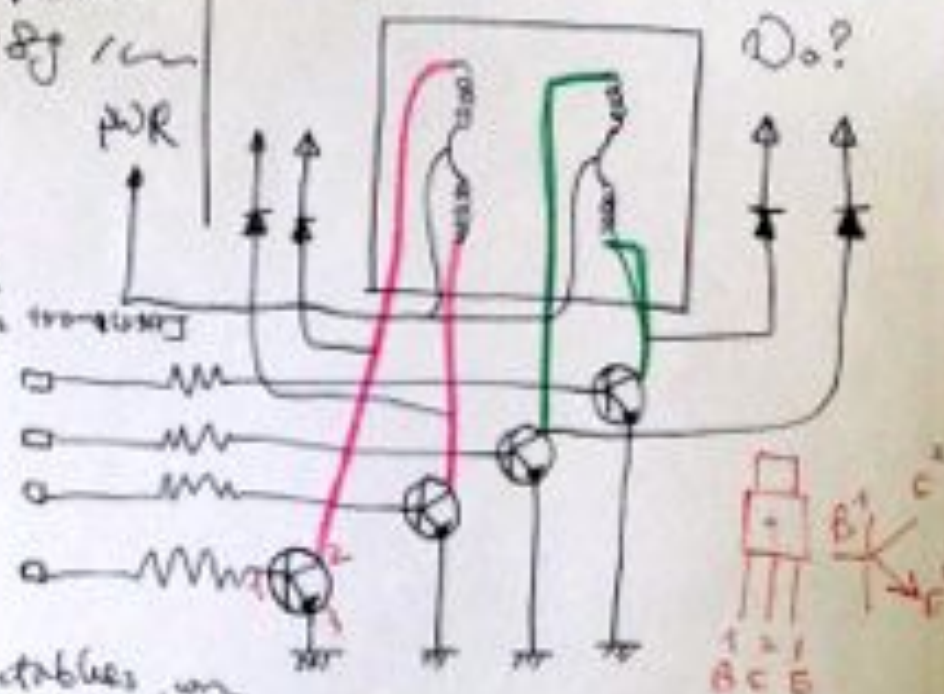
$$S_{alt}/a_{22} = 1,19 \text{ A}$$
$$73/4.2 = 0,485 \text{ g/mol} \rightarrow A!$$

Tepe 120

 $\frac{1}{2} \text{ of } 4 \text{ km} = 2 \text{ km}$

Not Top 122 >

: 250 FRU



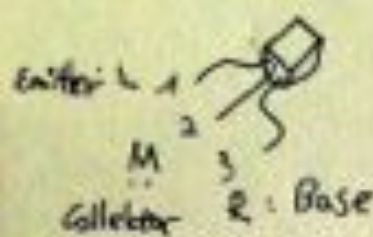
$\times 4 \times$ Tip 120/122 - NPN PWR
 $\times 4$ $10\text{ k}\Omega$ 1 kW Darlington 100 A
 $\times 4$ $1\text{ N}4001$ Diodes 75°C

v. 3 - 14448

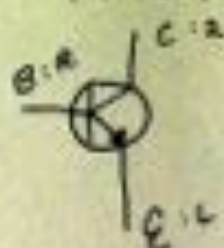
Tr. Decken Circuit - instructions, on

5th Jan 6am ref

BCA 7



NPN S+RE



Ref. PNP

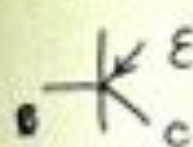
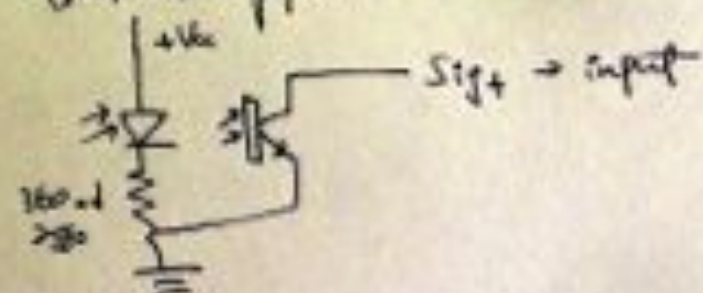


Photo interrupter



$$V = IR \quad I = \frac{V}{R} = \left| \frac{12}{4.2} = 2.8 A \right.$$

$$C = 0.95 A/P$$

$$R = 4.2 \Omega / P$$

z.B. $R = 20 \Omega \quad \phi 12 V : \frac{12}{20} = 0.6 A / per \text{ cali}$

$$8.002 / 9m$$

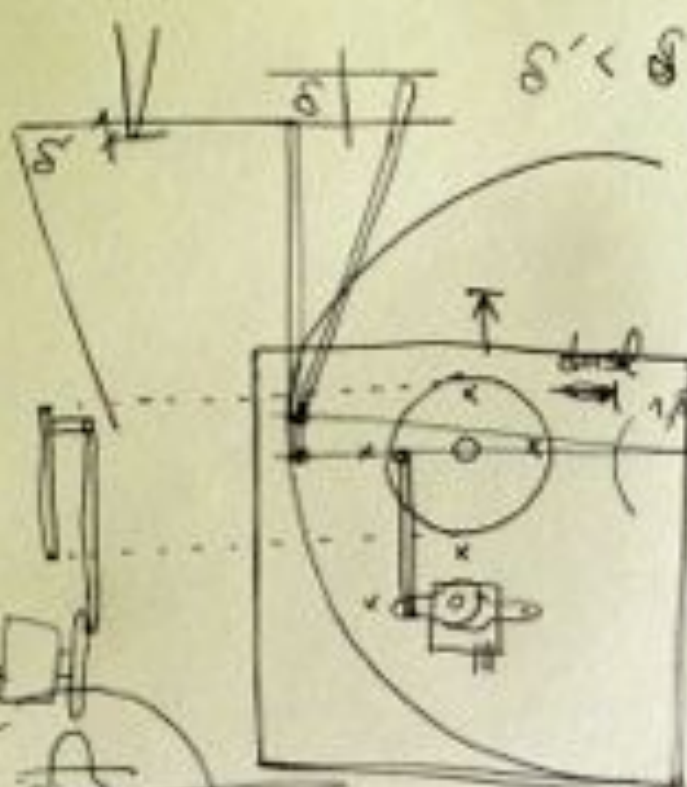
$$= \frac{226.7968}{0.0254} M$$

$$0.2267968 kg$$

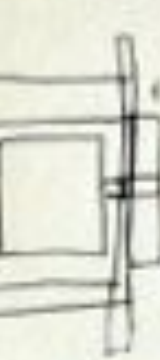
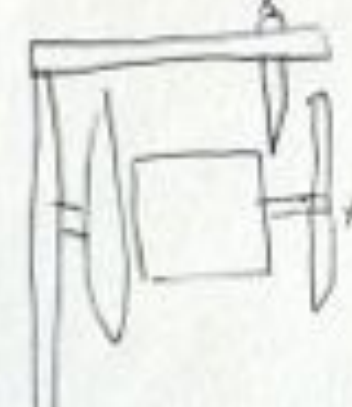
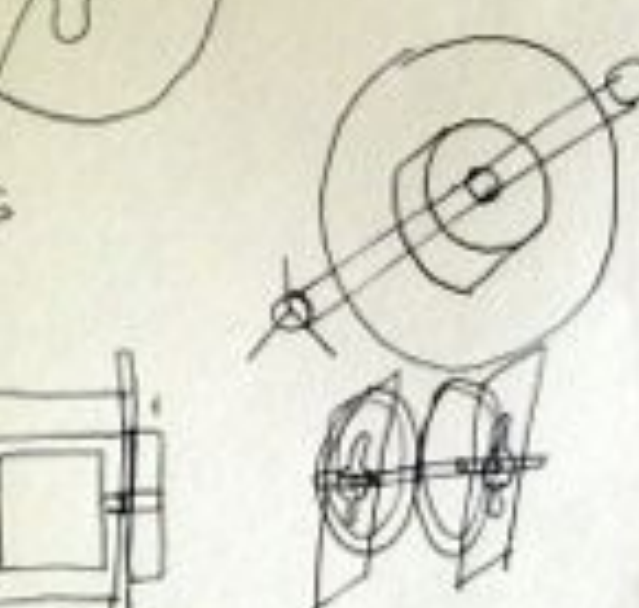
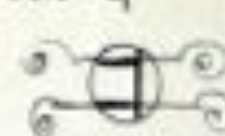
$$= 8.928 kg/M$$

Halbkg Zupack

$$\delta' < \delta$$

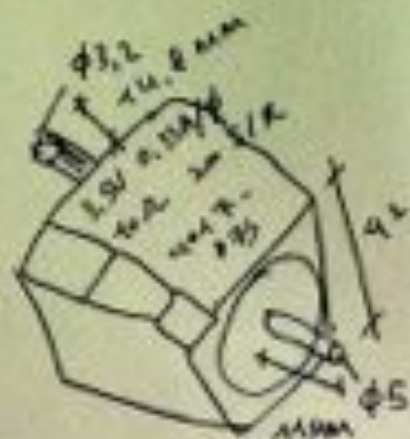


$\times 2 \text{ stop} = 3,6'$
gibt's zu viel mechanik, dann kann prozessproblem.



$$\text{Amps Peak} = 1.41 \times (\text{Amps RMS} = \text{Amps/Phase})$$

$$= 1.41 \times 0.33 \text{ A} = 0.5075$$



$$0.7/\text{in} \times 0.0145 \rightarrow \text{kg/m} : 8.002 \text{ cm} \rightarrow 0.5768 \text{ kg/m}$$

$$7.201 \times 10^{-4} \rightarrow 8 \text{ cm} \rightarrow 576.8 \text{ g/m}$$

$$22.01 \rightarrow 8 \text{ cm}$$

Minimum Wdg. Temp $\rightarrow 576.8 \text{ g/m}$

$$I = V/R = V/10\Omega$$

$$2.8: 3.2 \text{ R/wdg} \quad I = 6V/3 = 2A$$

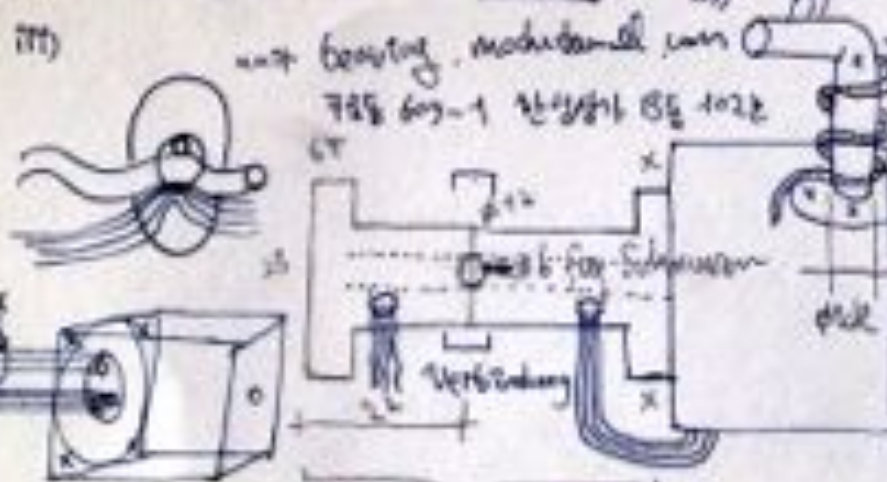
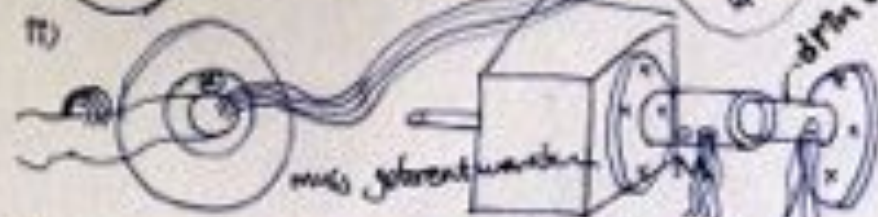
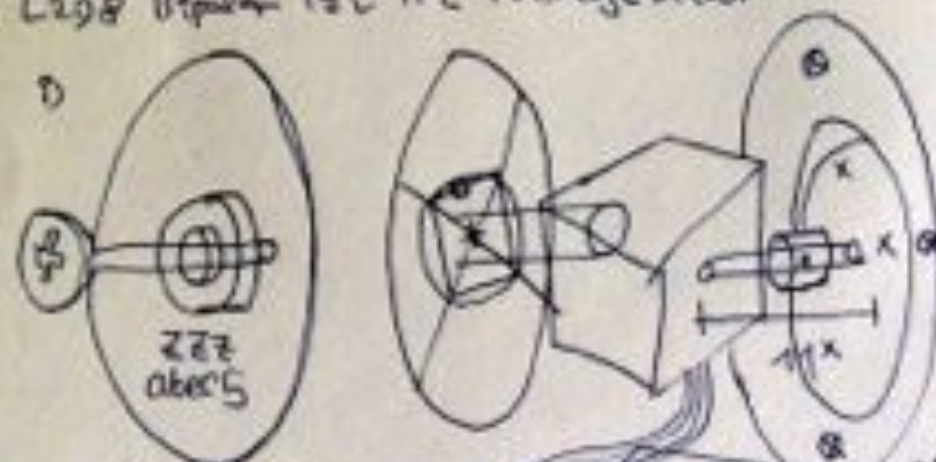
$$\text{Current Multiplier} = 1/2 = 4A$$

Update Order

- 0 (Single wdg fullstep) 1.4 dam, $I = V/10\Omega = 5V/10\Omega = 0.5A \times 1.4 = 0.7A$
- 1 (Halfstep alt 1, 2 wdg) 2.5 $2.5 = 1.25A$
- 2 (Fullstep 2 wdg at a time) 2.5
- 3 (micro step) 2.3 $2.3 = 1.15A$

L297 Bipolar + driver 10V 1A; + sense signal for bipolar + two flux chopper contacts

L298 Bipolar + driver 10V 1A H-Bridge Driver



10	1848/cm	13.95 USD
32	597 y/cm (8.3 m/y)	15.95 USD
38	10V 500mA 1008 2/cm 502	11.95 USD

40	120 USD : 40, 10 kW
50	31.26 MT (465)
Fokky	42.95 USD
	5.1 kW
2	19.5 kW
2	22.2
102	0.625 265

117

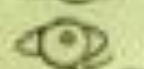
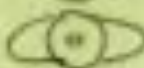
Ballthrustbohrer
 d D T FRD
 S1401 12 26 9 1679

Leistung F serie

FC

FL

LF



aka

1209 1208

1 14.95 > 11.95

10 13.46 > 10.76

1) 1209 x 1, 1208 x 1

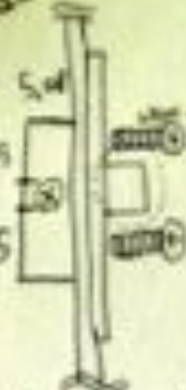
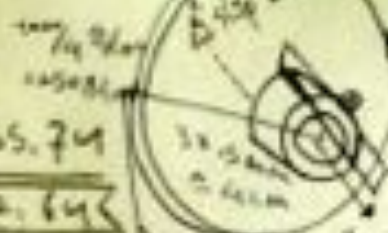
$$14.95 + 11.95 = 26.9$$

$$\text{Wenn } 1209: 13.46 \times 19 = 255.74$$

$$\text{Wenn } 1208: 10.76 \times 19 = 204.44$$

$$\text{II) einfach } 1209 \times 20 = 269.2$$

$$\text{III) einfach } 1208 \times 20 = 241.2$$



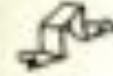
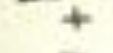
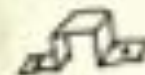
Kurze W: 200g = 1.2g

W: 70g

W: 250g

W: 270g

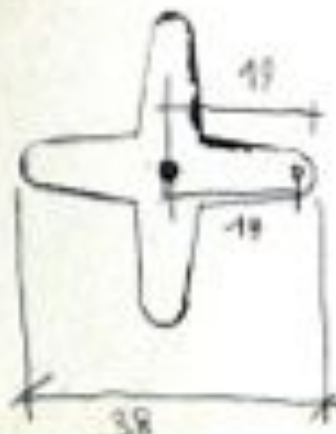
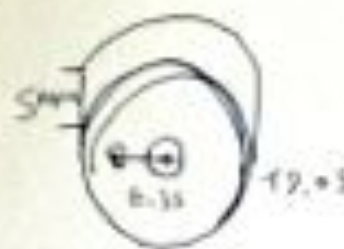
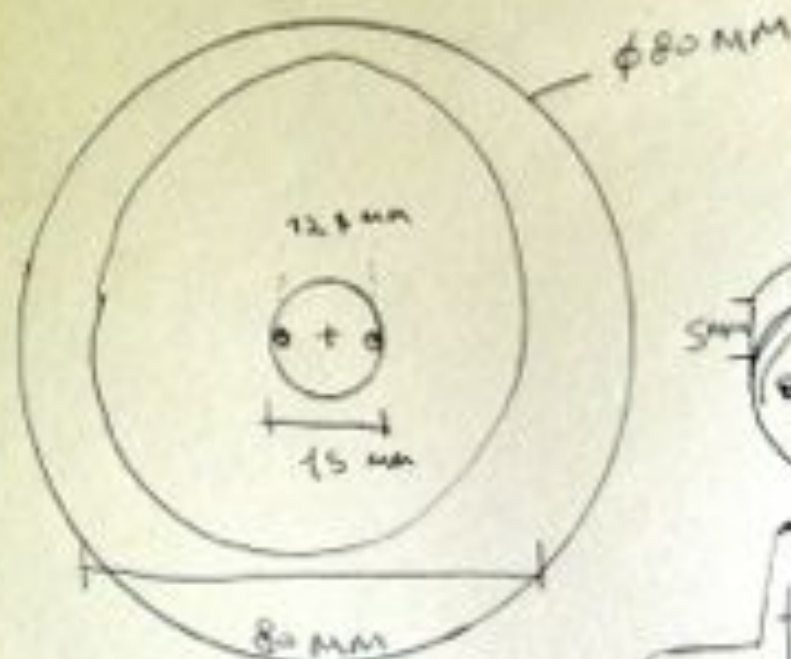
Revers: 4cm > 70g

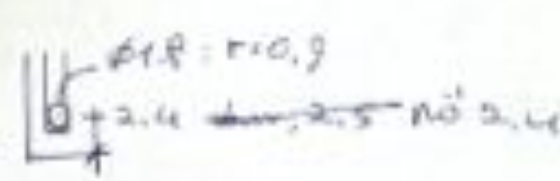
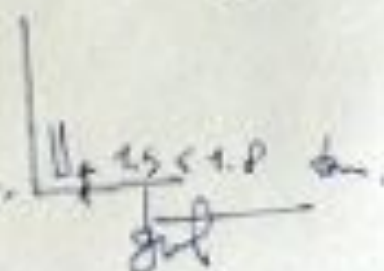
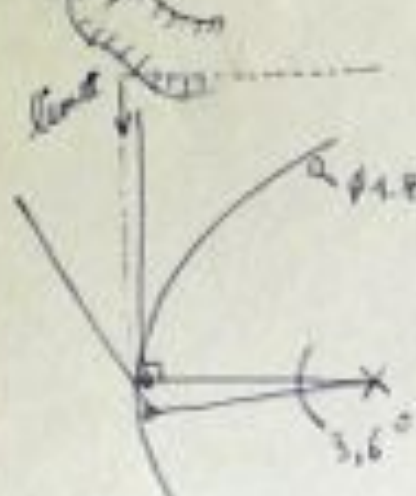
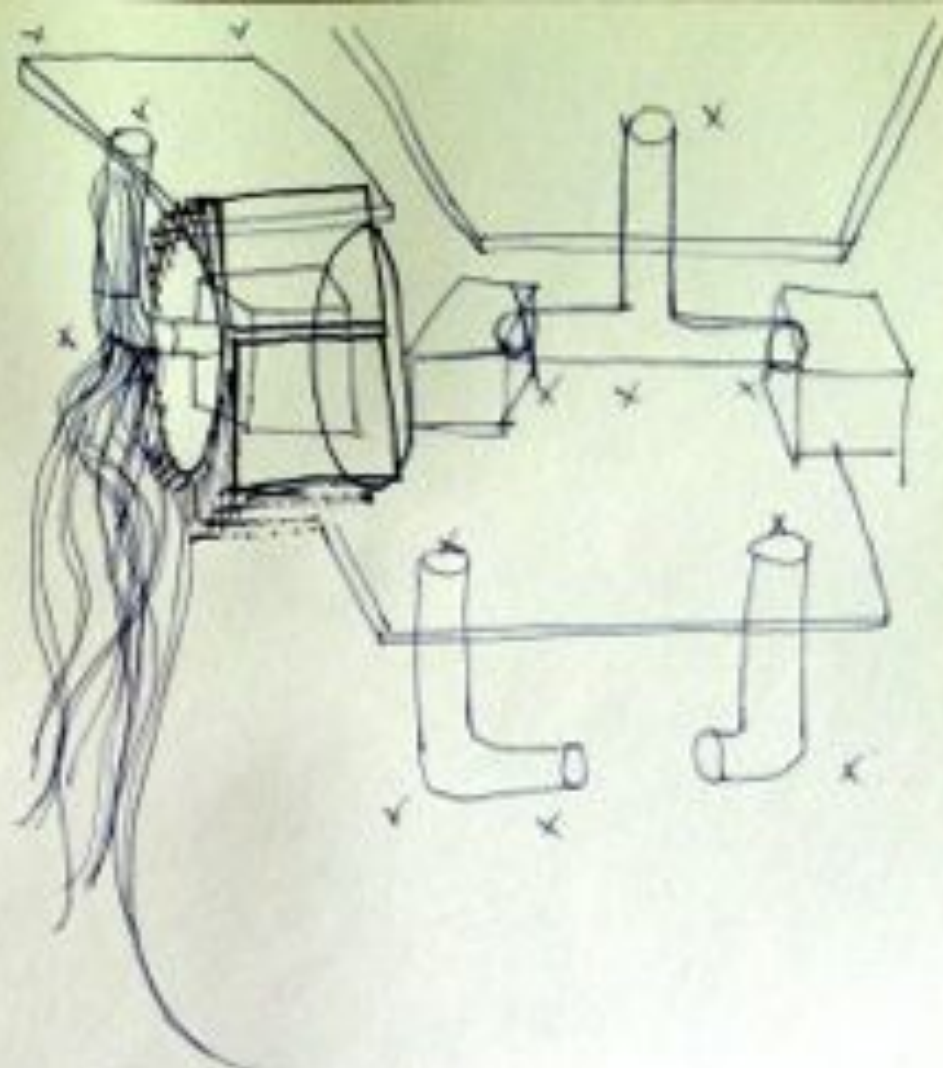
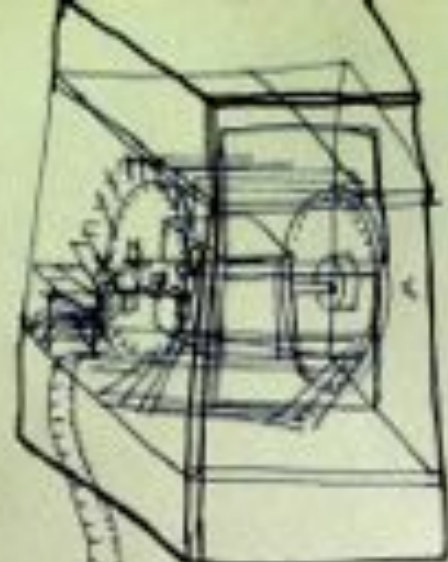


1080

1080g

+ Gew.
 + Farbe
 + Werkzeugzeug
 SI

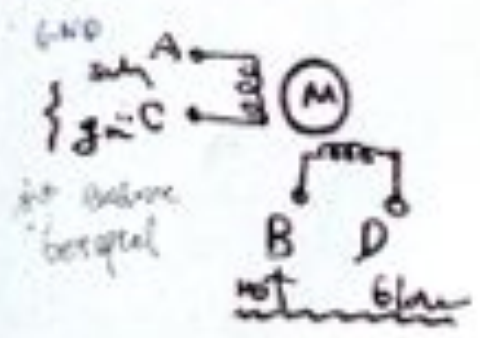


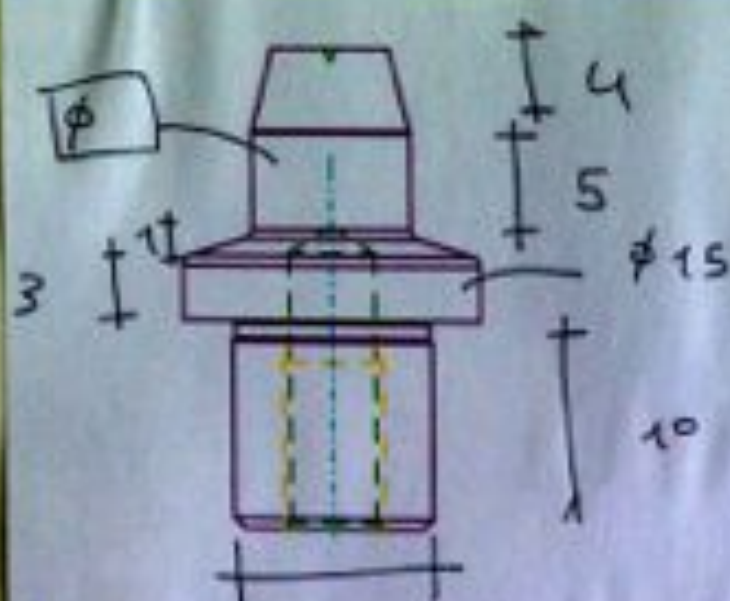


$\phi 15 \rightarrow \phi 5$
 $\phi 15 \rightarrow \phi 5$
 $\phi 5 \rightarrow \phi 3$

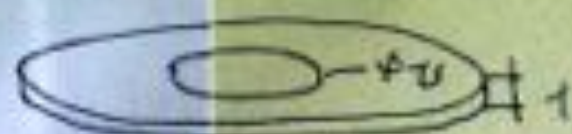
GND
 SU
 V00
 2N3
 GND
 RLF
 EV
 MS1
 MS2
 MS3
 EXT
 SLP
 STEP
 ON

V/MOT
 GND
 2B - BLAU
 2A - ROT
 1A - SCHWARTZ
 1B - GRÜN
 V00
 GND

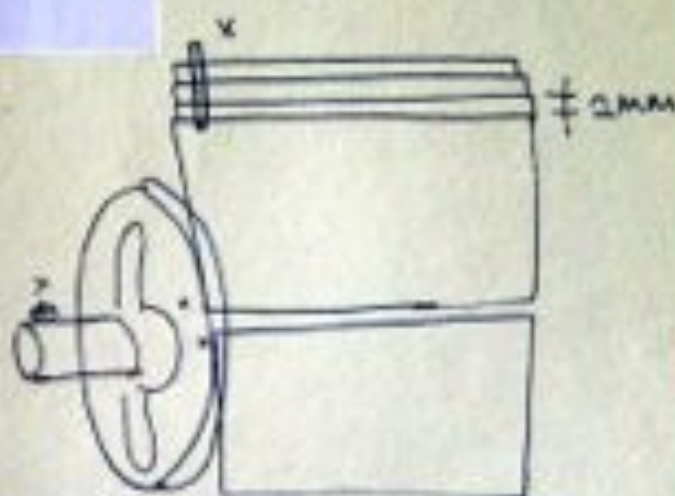
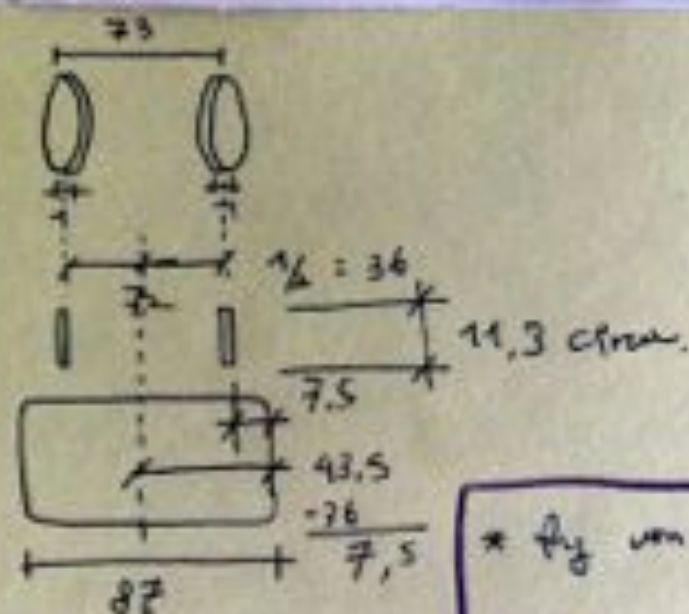




$\phi 15 \rightarrow \phi 5$



WPG 10 - P 15 - [20] - L 10 - B 3 - E 1 - FS
MSI



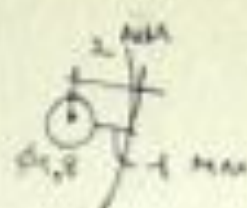
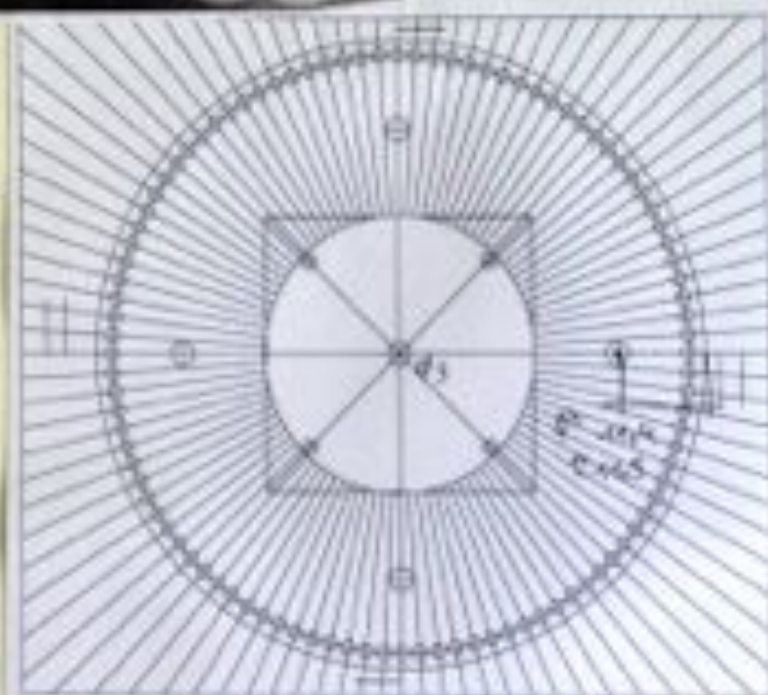
* fly von Loch machen

* Benötigte Teile





✓ - source
rastab schreiben



$$100 \text{ steps} : 180^\circ$$

$$180^\circ / 3 \text{ steps} : 60^\circ$$

$$33,3 : 60^\circ$$

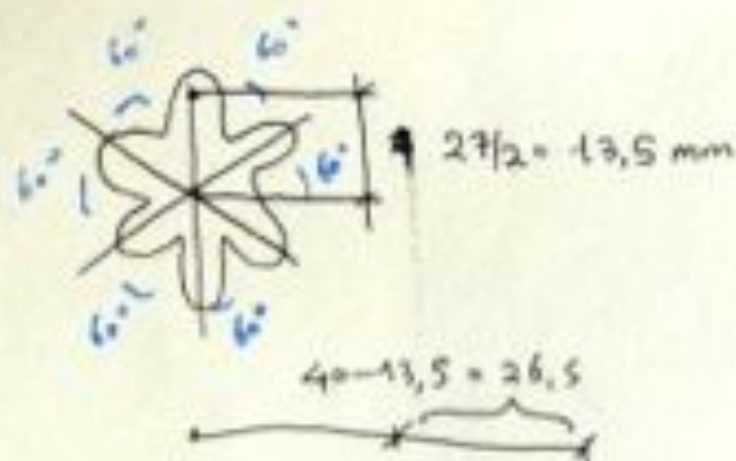
$$18^\circ \times 10 = 18$$

$$36$$

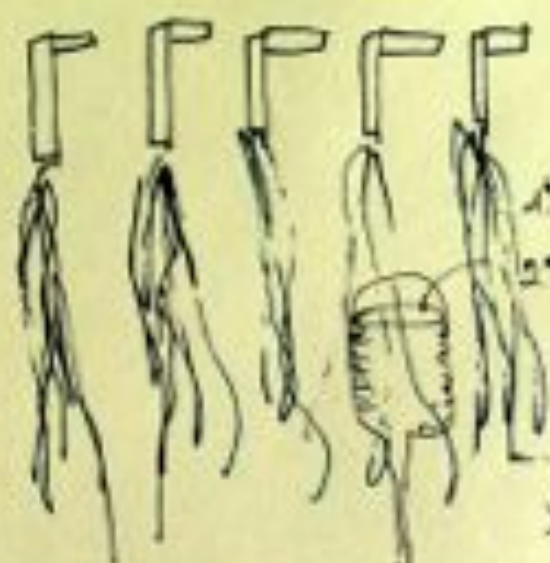
$$54$$

$$72$$

$$90$$



40



1. Gesso + Ocker + Wanne
2. Gesso + Wanne

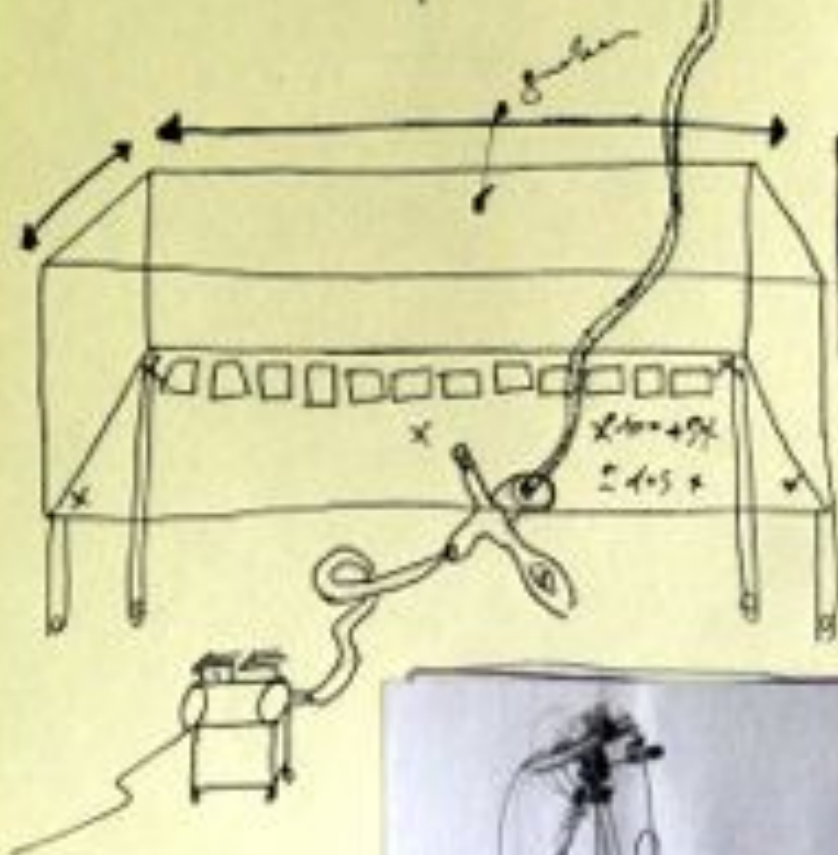
>> Grundierungs Methode <<

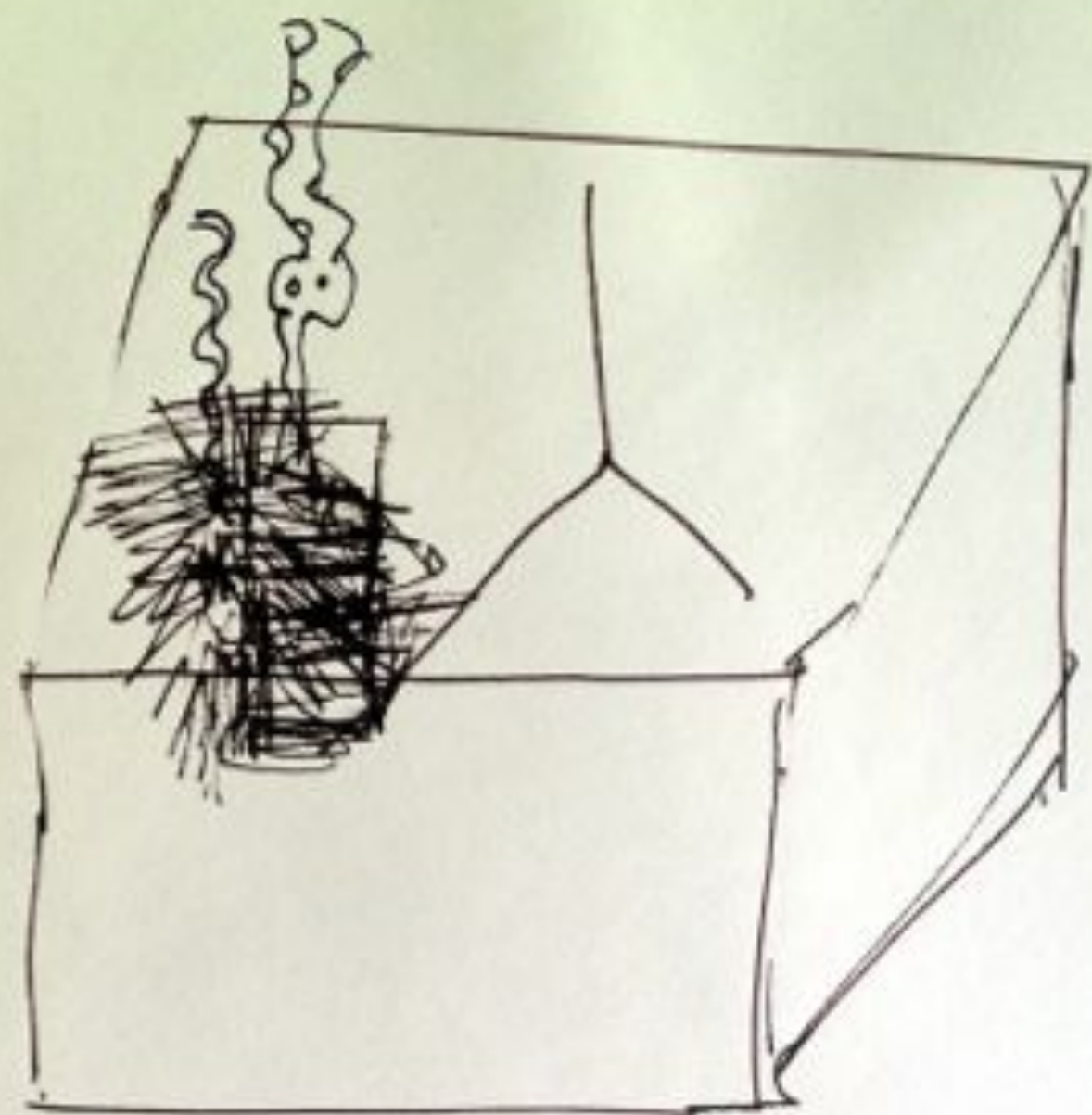
1. Öl basis od. so
2. Meistens nicht
3. gut getrocknet?
4. über Prozess: sicherung
5. pro netten
6. flinter seeling suchen

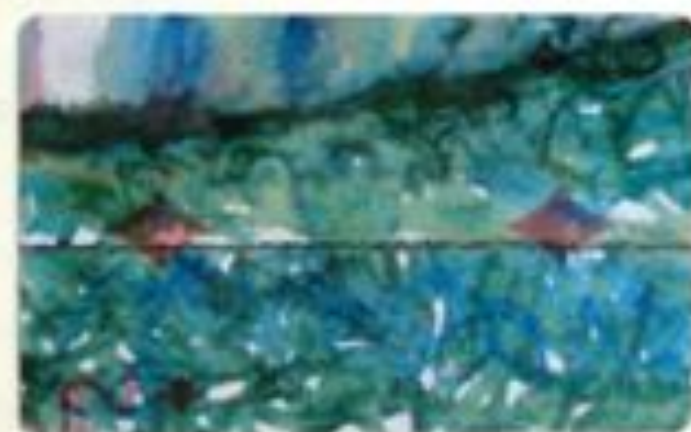
Öl über Aye über Gesso
über Analyse

* einfache normale
viel bearbeitete RAKA
in Fored.

** Schwarz + Matte
zuwund?



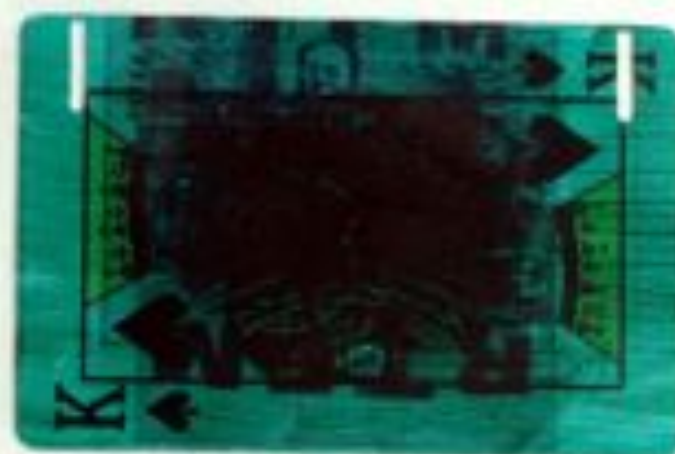


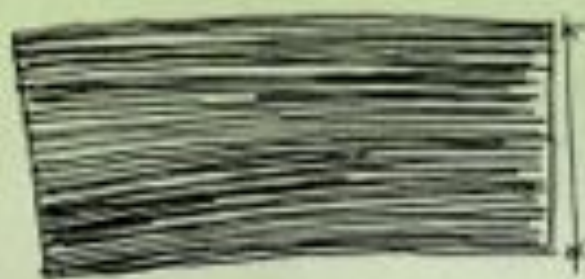


Abigail Goss: Math Pinsky : Abbie



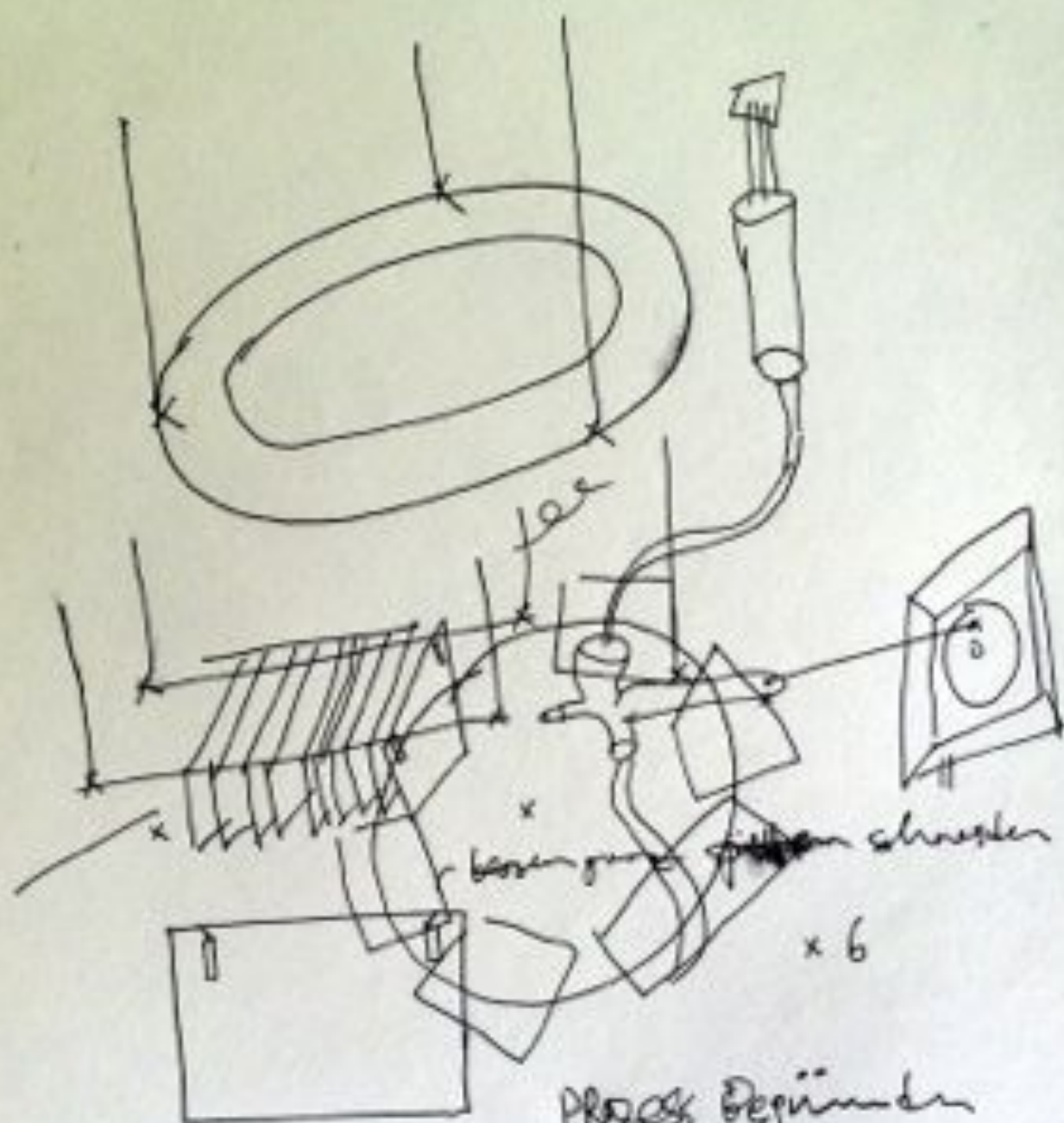
at
status



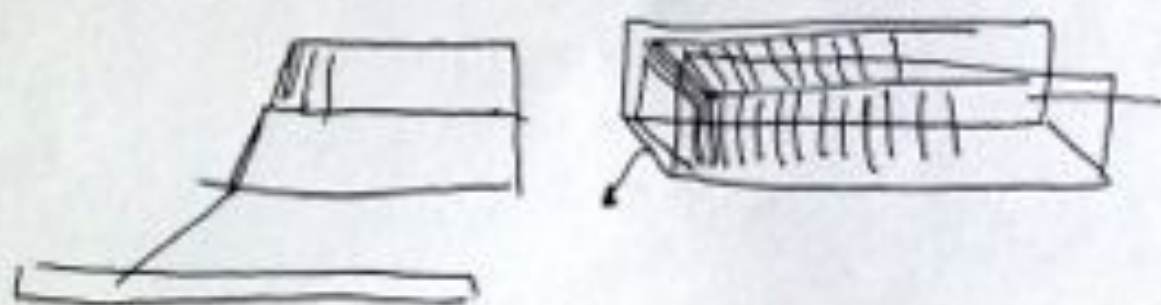


27 mm

$A \sim K + 2T = 62 \times 2 = 104$
 mm



Prozess Begleiten



karne stigmata

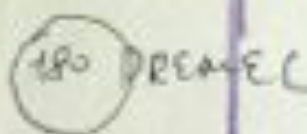
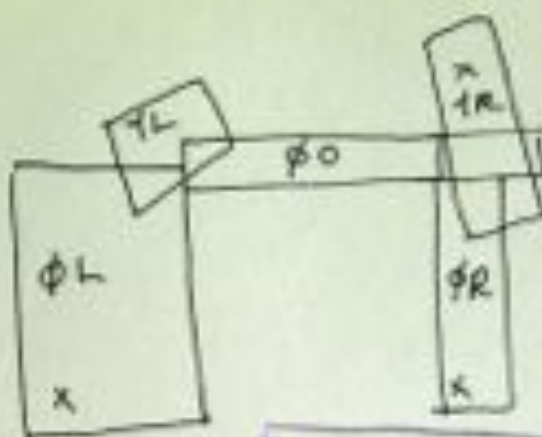
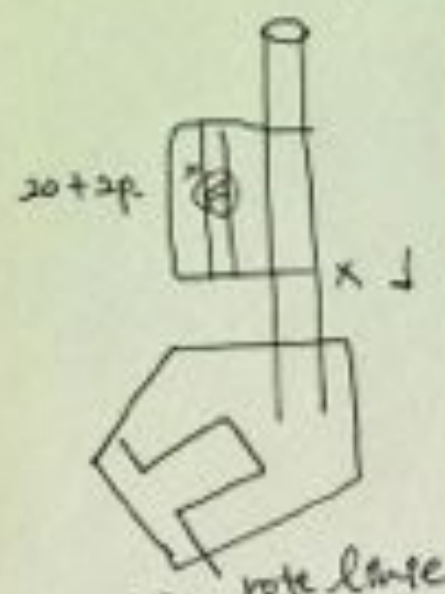
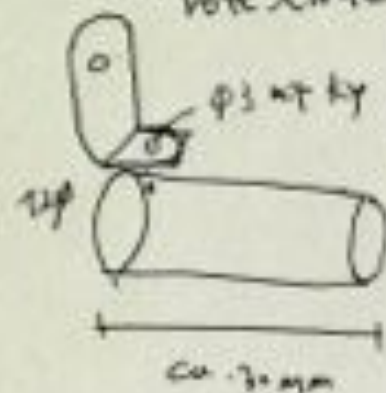


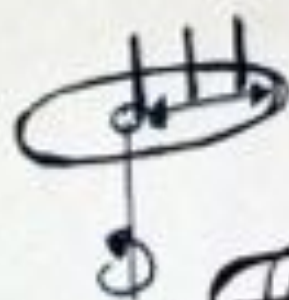
FOTO
STRUKTUR



das braucht etwas zu schmecken
mit dem ist es

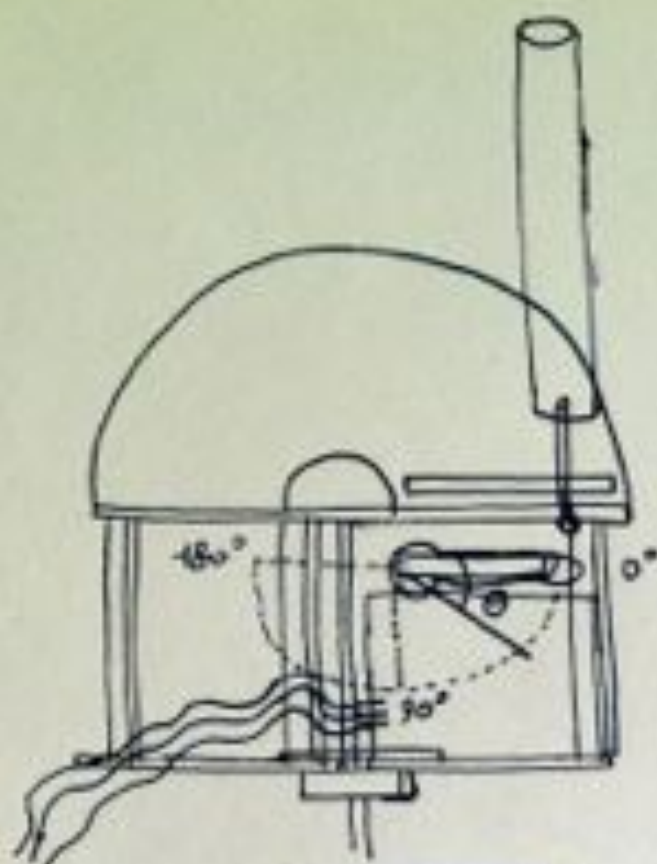


$$\begin{aligned} \Gamma &= \theta a \\ \theta &= \frac{a}{r} = \frac{r}{a} \\ a &= \frac{r}{\theta} = c \end{aligned}$$



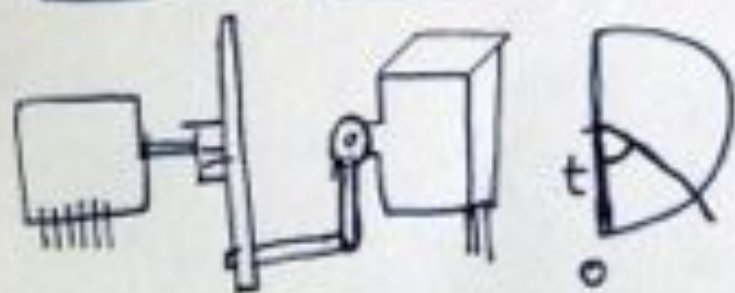
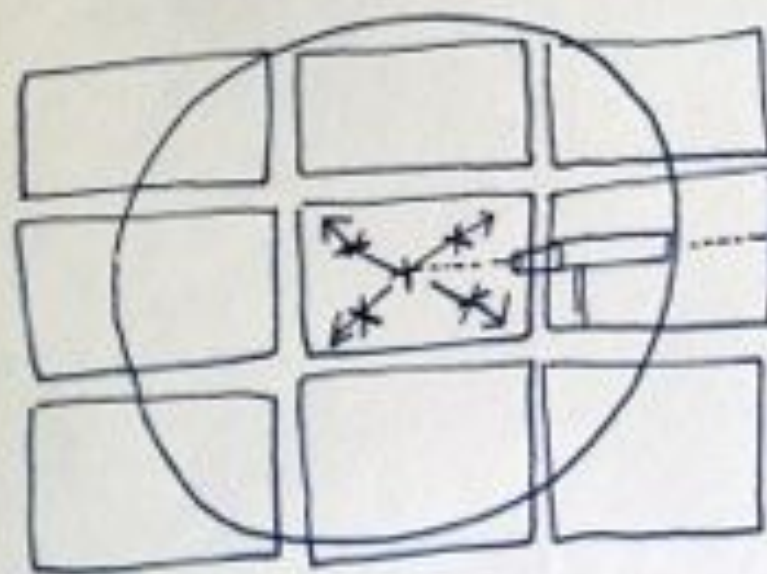
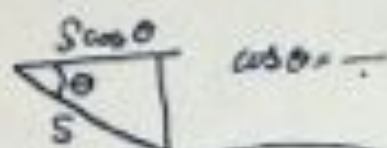
$$\begin{aligned} c &= \frac{1 \text{ mm}}{1^\circ} \\ &= \frac{2 \text{ mm}}{2^\circ} = \frac{3 \text{ mm}}{3^\circ} \end{aligned}$$





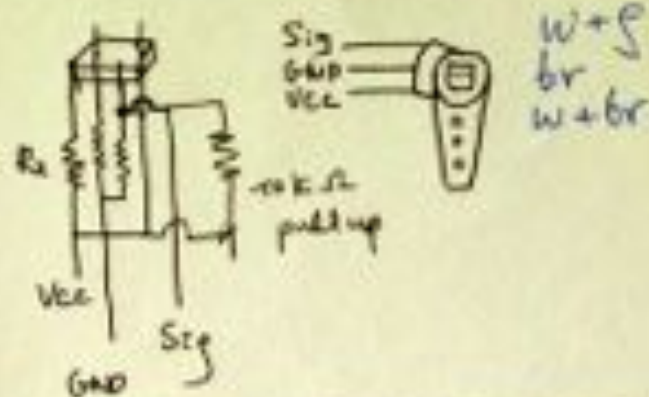
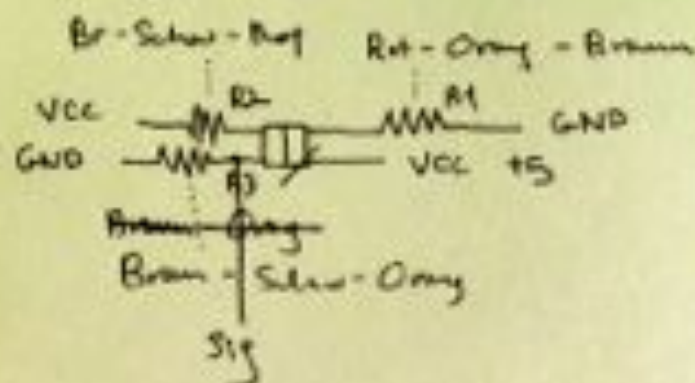
$r = a\theta$
 Archimedean spiral
 $r = \theta^{\frac{1}{n}}$

$a=1, n=4$
 $r = \theta^{\frac{1}{4}}$



200. 2000000

// Octo test



OPTO SOURCE / ARD

```
int inputPinZ = 13;
int inputPinX = 9;
int inputPinC = 43;
int val = 0;
```

```
void setup() {
  Serial.begin(115200); Serial.println("OptoTest");
  pinMode(inputPinZ, INPUT);
  pinMode(inputPinX, INPUT);
  pinMode(inputPinC, INPUT);
}
```

```
void loop() {
  static int v = 0;
  if (Serial.available()) {
    char ch = Serial.read();

    switch(ch) {
      case '0' ... '9':
        v = v * 10 + ch - '0'; break;
```

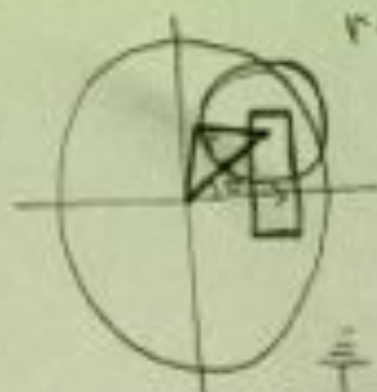
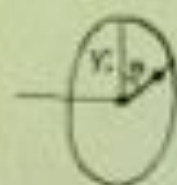
```
      case 'Z':
        Serial.print(digitalRead(inputPinZ)); v=0; break;
      case 'X':
        Serial.print(digitalRead(inputPinX)); v=0; break;
      case 'C':
        Serial.print(digitalRead(inputPinC)); v=0; break;
```

// von switch
// von loop

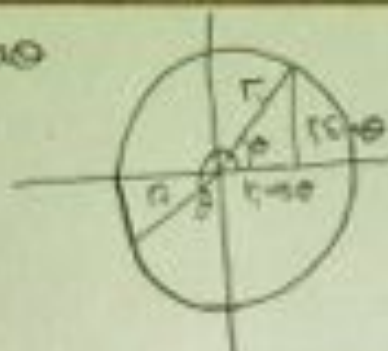


DIA

$$r_0 = 80 \text{ mm}$$



$$r = a \odot$$

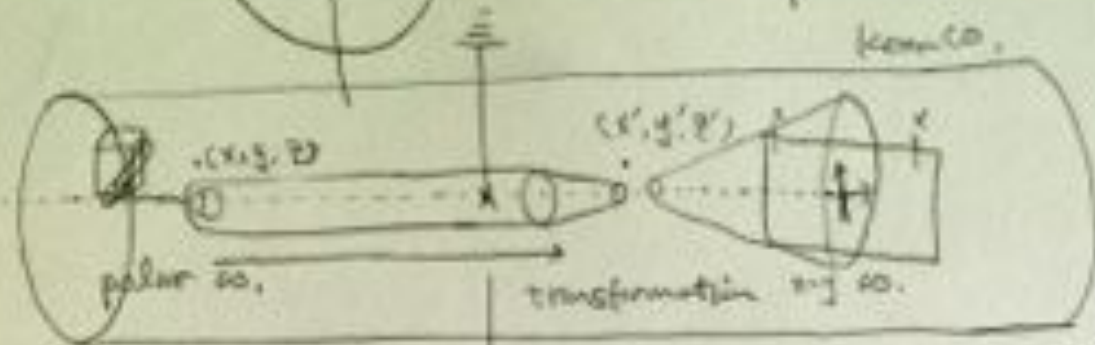


$$(r, \theta) \rightarrow (x, y)$$

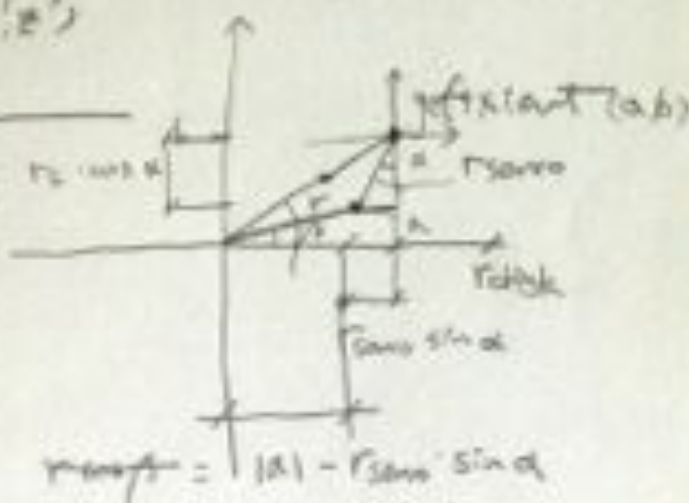
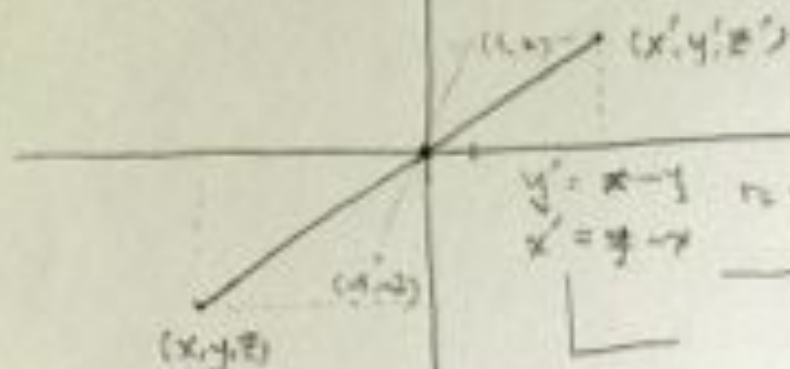
$$x = r \cos \theta$$

$$y = r \sin \theta$$

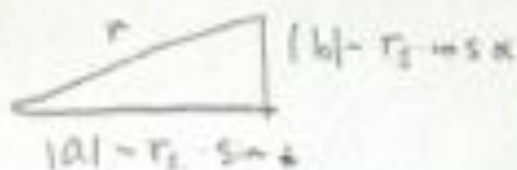
$$r = r_0 \cos \theta + r_0$$



ginynder co.



$$r_{\text{offset}} = |a| - r_0 \sin \alpha$$

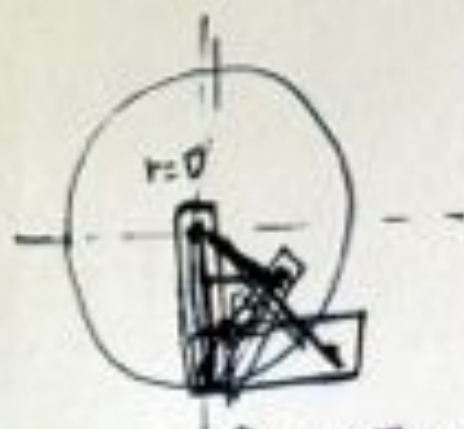


$$r = \sqrt{(|a| - r_0 \cos \alpha)^2 + (|a| - r_0 \sin \alpha)^2}$$

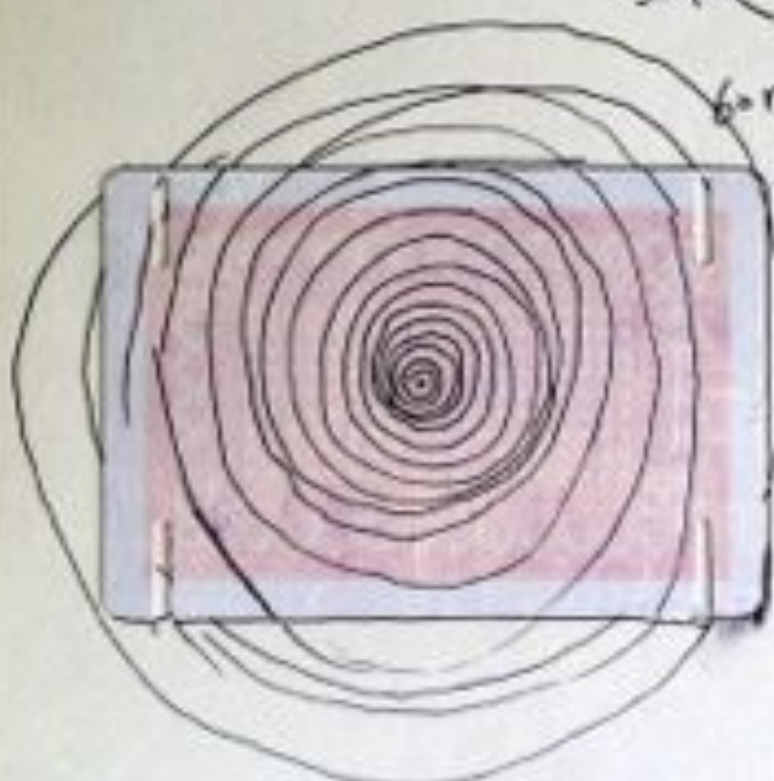
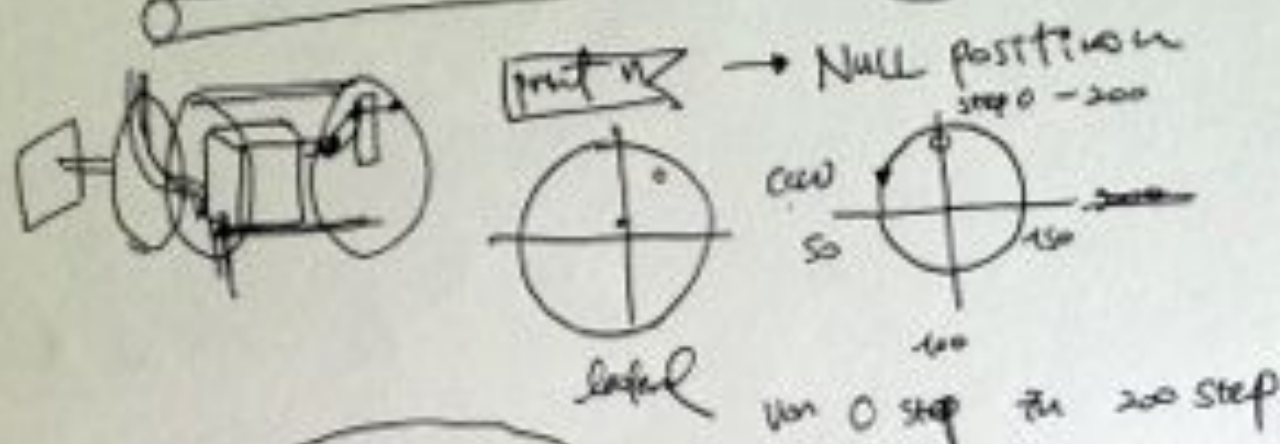
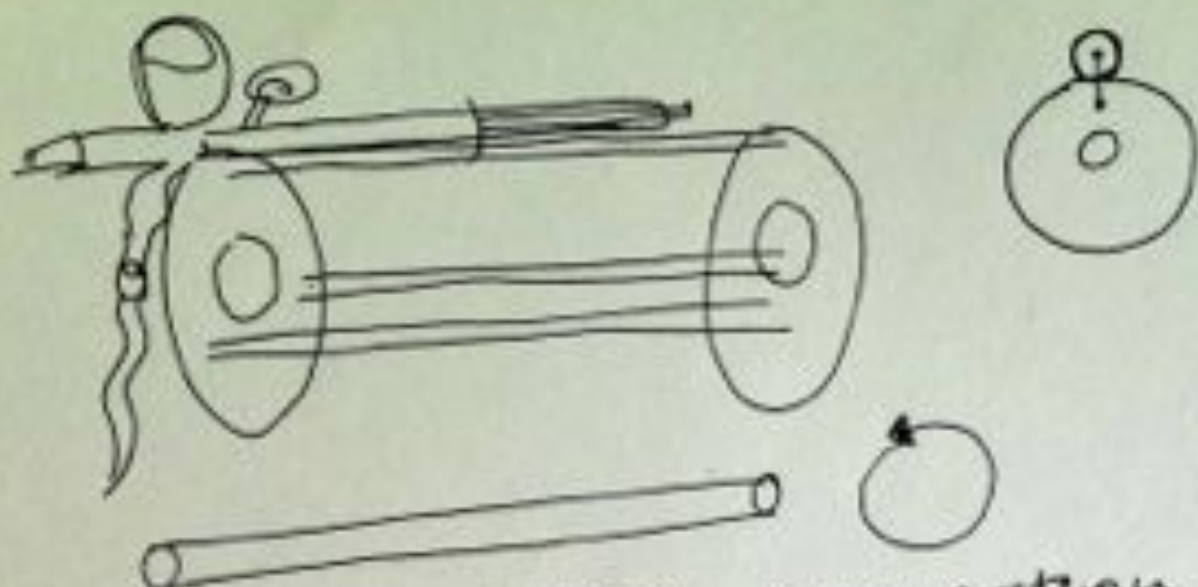
$$r = f(\alpha) = r^*$$

$$(x, y) = (r^* \cos \theta_{\text{supp}}, r^* \sin \theta_{\text{supp}})$$

$$= (-r^* \cos \theta_{\text{sup}}, -r^* \sin \theta_{\text{sup}})$$



$$\theta_{\text{sup}} \times r_0 \cos \theta \times \sin \theta_{\text{sup}}$$



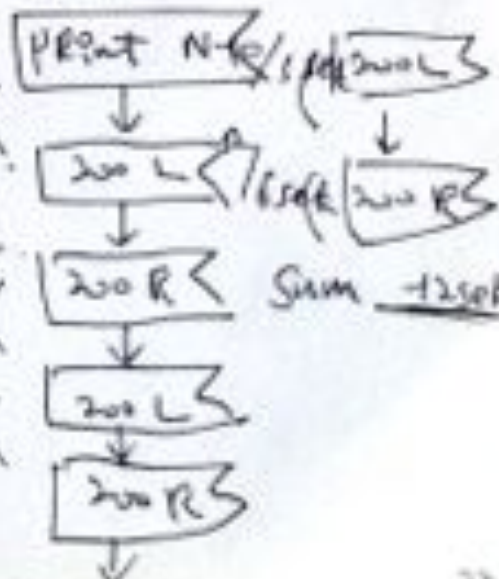
von null $\rightarrow$ maximum
durch 6 sek / 12 sek.

Wie ist die Kompensation?
egal so!

60 rpm: $\frac{200 \text{ step}}{60 \text{ sek}} = 3.3 \text{ step/sek}$
 $60 \times 200 \text{ step/60 sek} = 200 \text{ step/sek}$
6 Rund.
 $1200 \text{ step} = 6 \text{ sek}$

① 0 $\rightarrow$ 200 L $\rightarrow$ 200 R

② 200 L $\rightarrow$ 200 R $\rightarrow$ 200 L
 $\frac{6}{2/4 \text{ sek}}$ $\frac{4}{2 \text{ sek}}$



$$L(u\theta) \quad b(u\theta)$$

$$r = a\theta$$



Fermat's spiral

$$r = a\sqrt{\theta} = a\sqrt{\theta}$$

$$r^2 = a^2\theta$$

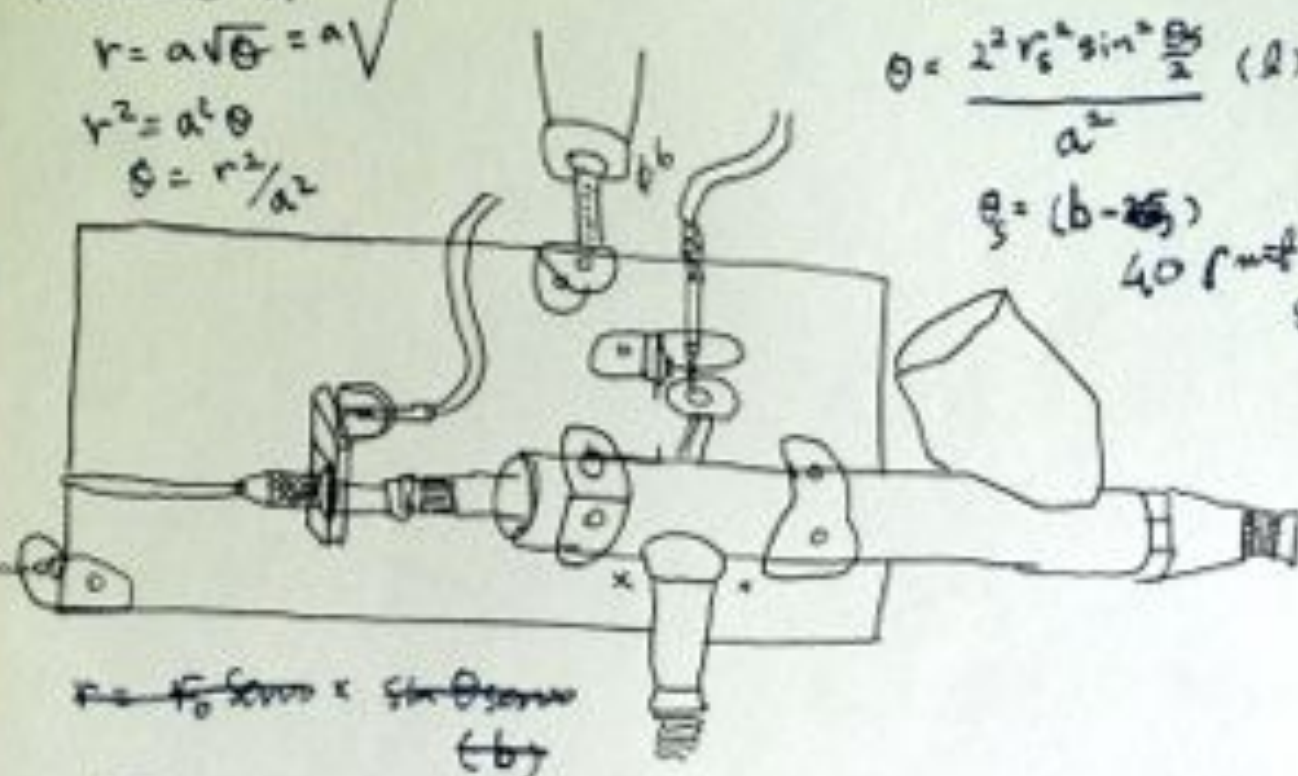
$$\theta = r^2/a^2$$

archimedean

$$\theta = \frac{2^2 r_s^2 \sin^2 \frac{\theta}{2}}{a^2} \quad (1)$$

$$\theta = (b - 25)$$

40 (not over 50)



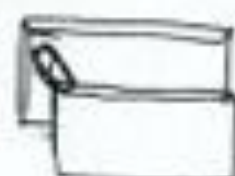
$$r = r_0 \sin \theta \times \sin \theta \sin \theta$$

(b)

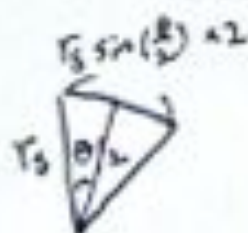


$$\theta_{\text{max}} = 0 = r = 0$$

$$\theta_{\text{max}} = \pi : r = r_0 \sin \theta \times 1 = r_0 \sin \theta$$



proboscis not
HEX



$$r = 2 r_s \sin \frac{\theta}{2}$$



$$r_p = a \sqrt{\theta_p}$$

$$r_s = 2 r_{so} \cdot \sin \frac{\theta_s}{2}$$

$$\theta_s = b - 40$$

$$r_p = r_s$$

r_p : Radius von Steppen

r_s : Radius von servo

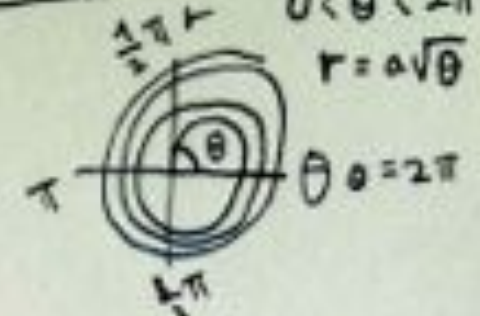
r_{so} : length von servo

$$\theta_p = 1.8^\circ \times \text{step}$$

$$r = f(\theta)$$

$$0 < \theta < 2\pi$$

$$r = a \sqrt{\theta}$$



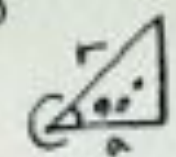
$$(a \sqrt{\theta_p} = 2 r_{so} \cdot \sin \frac{\theta_s}{2})$$

$$a^2 \theta_p = 4 r_{so}^2 \cdot \sin^2 \frac{\theta_s}{2}$$

$$\frac{a^2 \theta_p}{4 r_{so}^2} = \sin^2 \frac{\theta_s}{2} = \frac{1 - \cos \theta_s}{2}$$

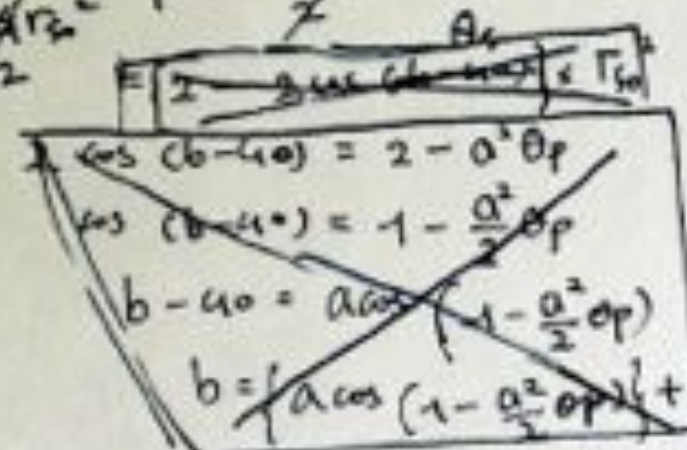
$$= \sin^2 \left(\frac{b - 40}{2} \right) \rightarrow \text{nach } b = f(\theta_p)$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$



$$\cos \theta = \frac{a}{r} = 0$$

$$\frac{a^2 \theta_p}{2 r_{so}^2} = \left\{ 1 - \cos \left(\frac{b - 40}{2} \right) \right\} \cdot x$$



$$\cos(b - 40) = 2 - \frac{a^2 \theta_p}{2}$$

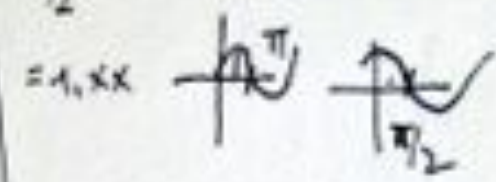
$$\cos(b - 40) = 1 - \frac{a^2 \theta_p}{2}$$

$$b - 40 = \arccos \left(1 - \frac{a^2 \theta_p}{2} \right)$$

$$b = \left[\arccos \left(1 - \frac{a^2 \theta_p}{2} \right) \right] + 40$$

$$\cos 90^\circ = 0$$

$$\arccos 0 = 90^\circ = \arccos 0$$



$$x^\circ = (x \cdot \frac{180}{\pi}) \quad (1 \text{ rad} = 180^\circ)$$

$$x \text{ rad} = (x \cdot \frac{\pi}{180})$$

$$180^\circ = \pi \text{ rad}$$

$r = f(\theta)$
 in servo degree $\rightarrow$ step $\times 1.8^\circ$
 in radian $\rightarrow$ $0 \leq \theta \leq 2\pi$
 (360°)
 200 step

$$\arccos x = \arccos \left(\frac{1 - x^2}{2} \right) / x$$

$$\cos \theta_s = 1 - \frac{a^2 \theta_p}{2 r_{so}^2} = 1 - k \theta_p$$

$$\theta_s = \arccos(1 - k \theta_p) \quad 1.8^\circ \times \text{steps} \rightarrow \text{in radian}$$

$$\theta_s = 2 \arcsin \left(\frac{a \sqrt{\theta_p}}{2 r_{so}} \right) \quad t\text{-servo} = 2 \arcsin \left(\frac{a \sqrt{t\text{-step}}}{2 r\text{-servo}} \right)$$

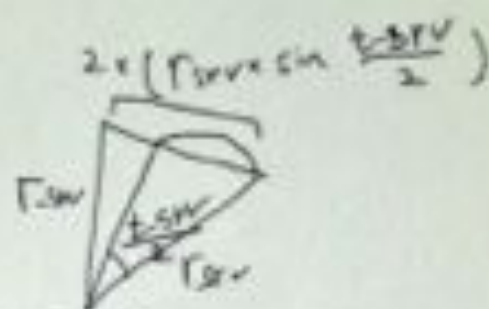
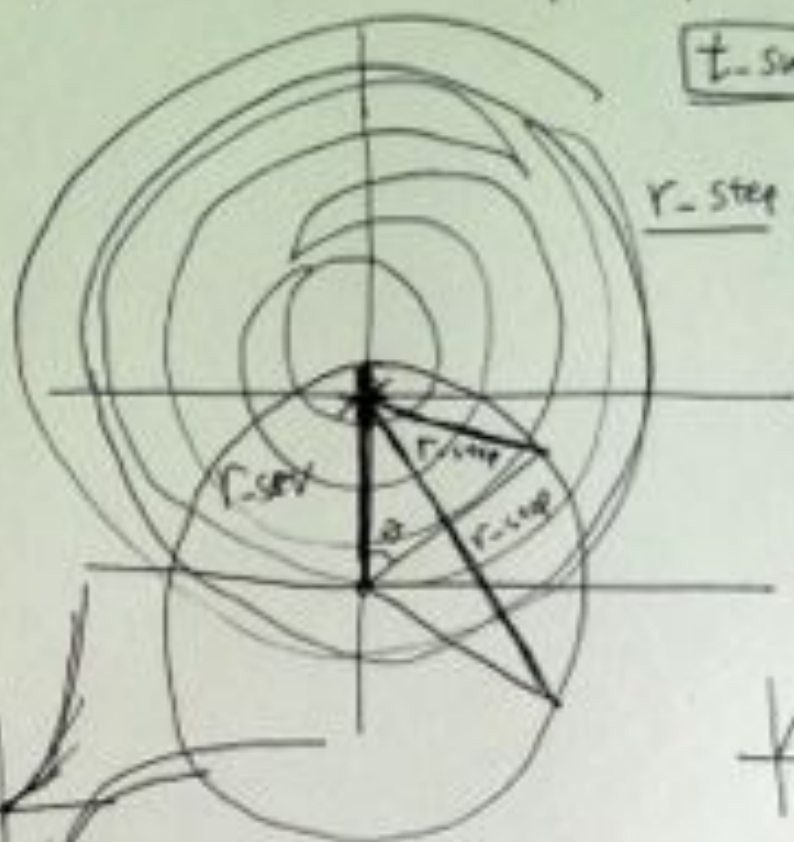
$$0 < \sin x < 1$$

$$0 < \arcsin < 2\pi$$

t-step ist nur eine tempo-berechnung, so nur

$$\boxed{t_{\text{sw}}} = f(\text{tempo})$$

kontrollieren!



$$\boxed{t_{\text{sw}}} = 2 \arcsin\left(\frac{r_{\text{step}}}{2r_{\text{sw}}}\right)$$

$$2 = r_{\text{step}} = 2 \cdot r_{\text{sw}} \cdot \sin\left(\frac{t_{\text{sw}}}{2}\right)$$

Wann, ganze number.

$r_{\text{step}} = 2$ assumed,

$$r_{\text{sw}} \cdot \sin\left(\frac{t_{\text{sw}}}{2}\right) = 1$$

$$\text{wenn } r_{\text{sw}} = 2$$

$$\sin\left(\frac{t_{\text{sw}}}{2}\right) = \frac{1}{2}$$

$$x = \frac{\pi}{6} = 30^\circ = \frac{t_{\text{sw}}}{2}$$

$$t_{\text{sw}} = 60^\circ$$

$$r_{\text{step}} = 2 r_{\text{sw}} \sin\left(\frac{t_{\text{sw}}}{2}\right)$$

c c

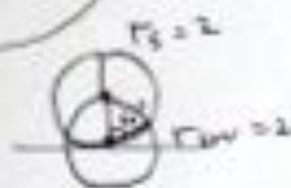
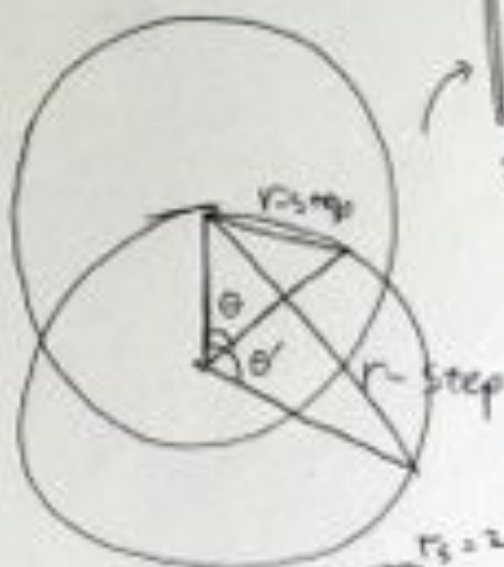
$$r_{\text{step}} = a \cdot t_{\text{step}} \quad \frac{\pi}{2} (90^\circ)$$

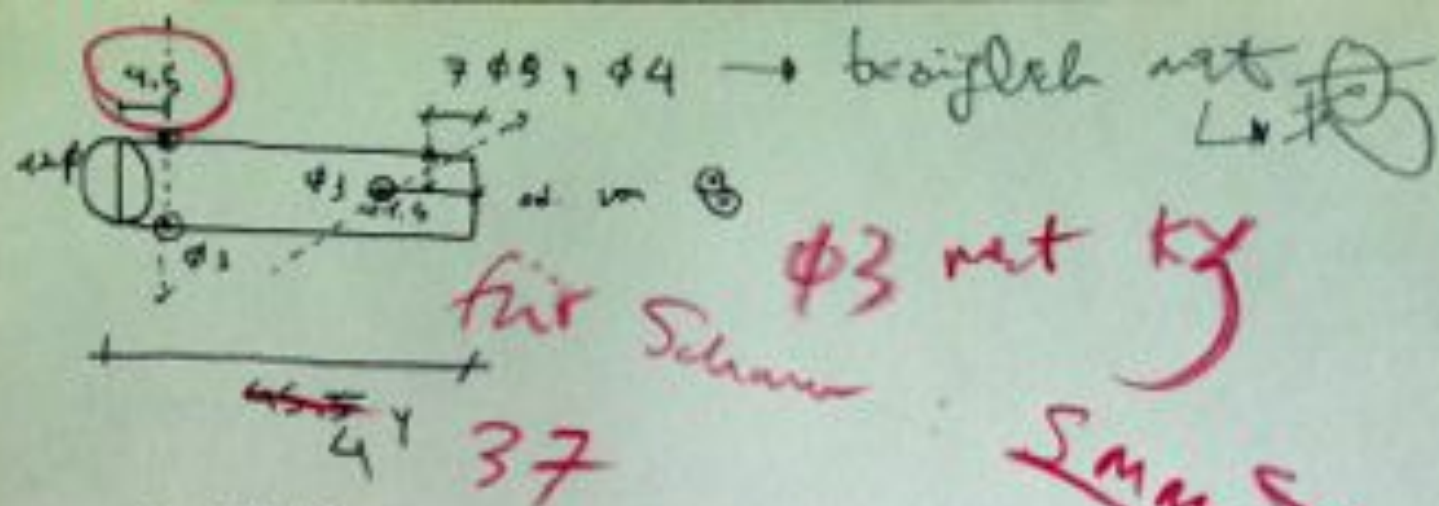
$$a \cdot t_{\text{step}} = 2 r_{\text{sw}} \cdot \sin\left(\frac{t_{\text{sw}}}{2}\right)$$

$$a = \frac{3.14}{1}$$

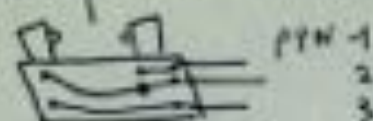
$$A = \frac{a}{t} = \frac{4}{3.14} = 0.726$$

$$r_{\text{step}} = 2 \text{ cm}$$





» opto cc



CURRON 1230 17 1M39



$$102 \times 0.1\% \times 5 = 10.2 \Omega$$

36 Ω für LED für 5V
10k pull-up r. für photo-R

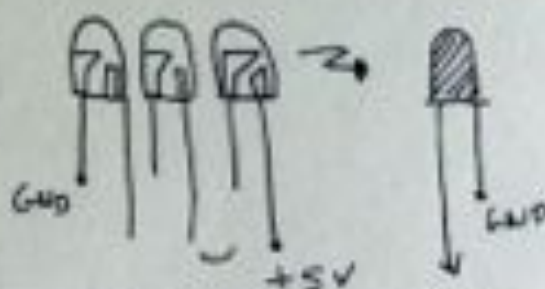
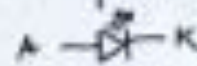


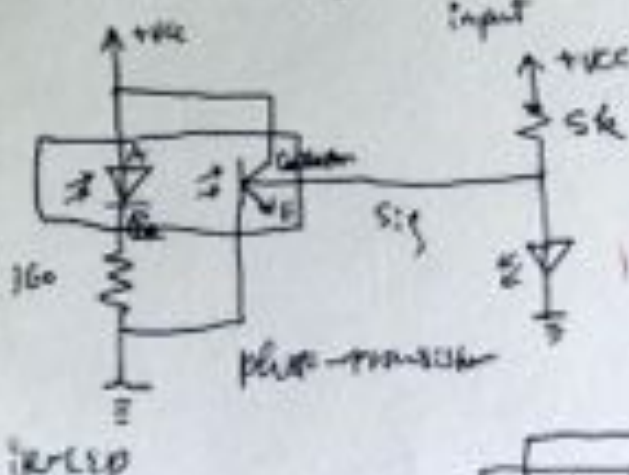
Fig. 330

0-0-5

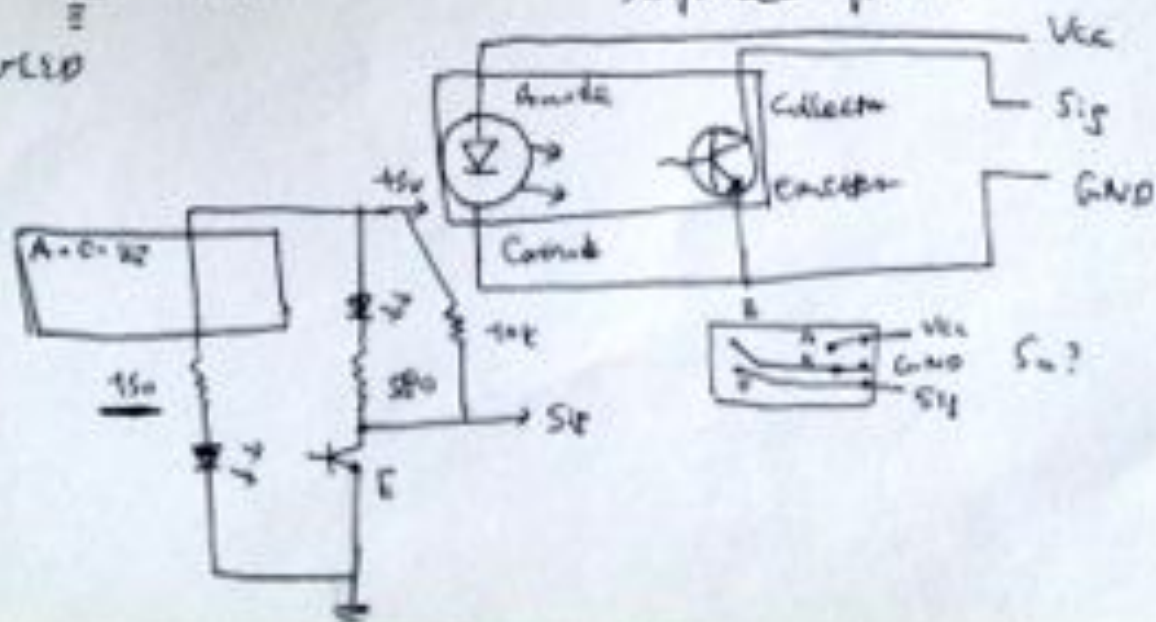
emitter



FLAT package
CATWIRE



esp. dark plastic package that
at visible light of
stable for detectors of
infrared applications



Si 3317-M

Ford-Voltage $I_F = 50 \text{ mA}$ $I_{F \text{ typical}} 1.5 \text{ Max } 1.5$
 Absolute Max Rating $I_F = 100 \text{ mA}$
 $V = IR$ $5V = \frac{I_F (50 \text{ mA})}{0.05} \times R$ $R = 100 \Omega \times$

330 $\sqrt{390}$

360 Ω
 160 $\Omega \times$
 580 Ω

560 620
 30

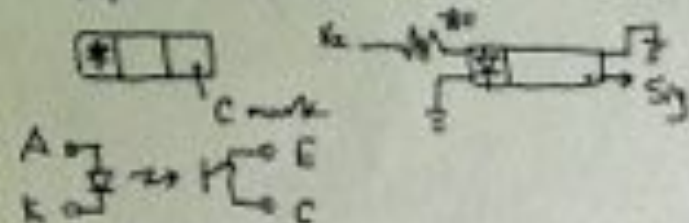
EL-276

$I_F \text{ max} = 60 \text{ mA}$ $R = \frac{V}{I} = \frac{5}{0.06} = 83.3 \Omega \times$

cf) $S = 0.02 \times r$ $r = \frac{S}{0.02} = \frac{0.02}{0.02} = 1 \Omega \times$
 $S = 0.03$ $r = \frac{S}{0.02} = 1.5 \Omega \times$
 30

> SG-207

input $I_F = 20 \text{ mA}$ $5V = 0.03 \times (R = 166 \Omega)$

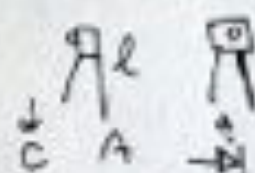


C ist in S_{ij}

> EL-236

$I_F = 60 \text{ mA}$ $R = 83.3 \Omega$

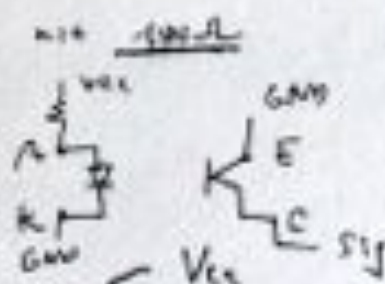
HT > HPI - IFFR4



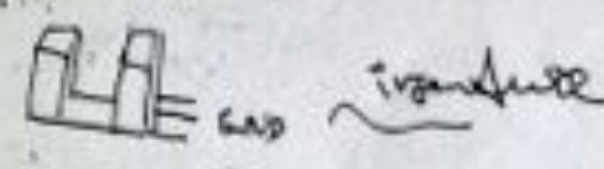
> SG-24FF

$I_F = 30 \text{ mA}$ Max I_F 60 mA (160 Ω)

SG-255 Max I_F 60 mA (160 Ω)



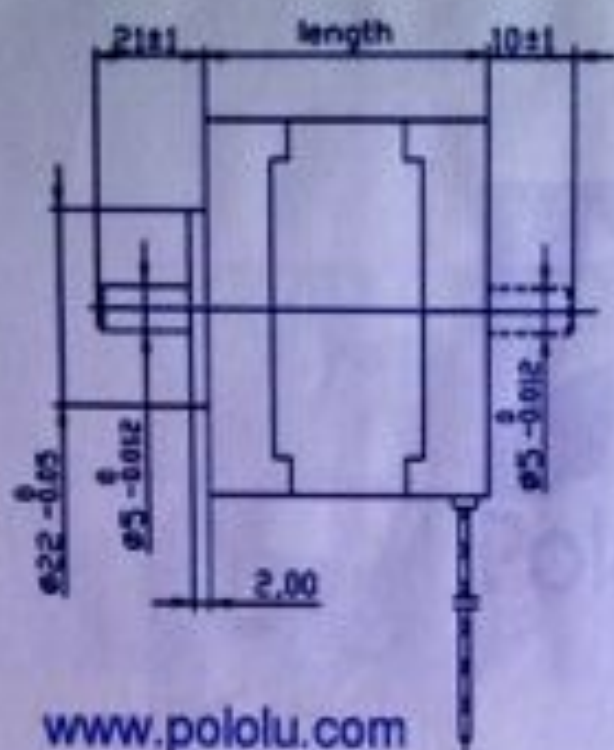
> opto and opson



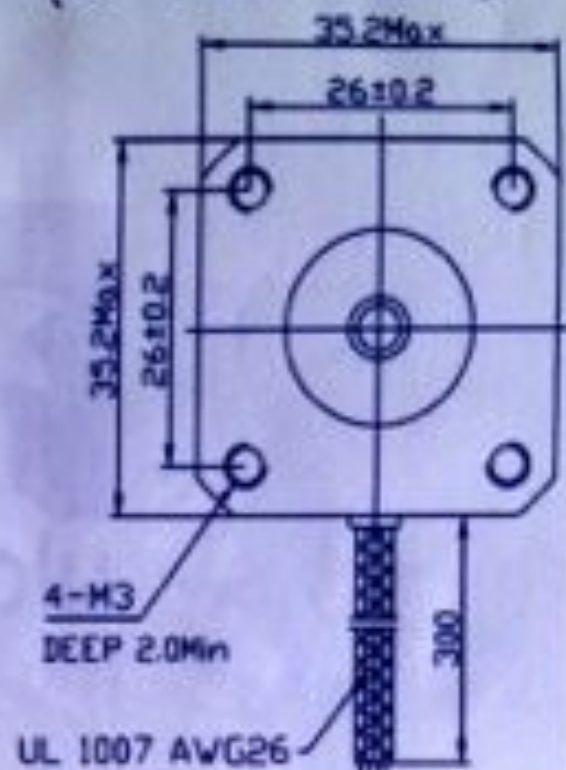
$R \approx 16 \Omega$, 20 20 beide fests

zu Sicherheit
 Probleme erstand mit 20 Ω



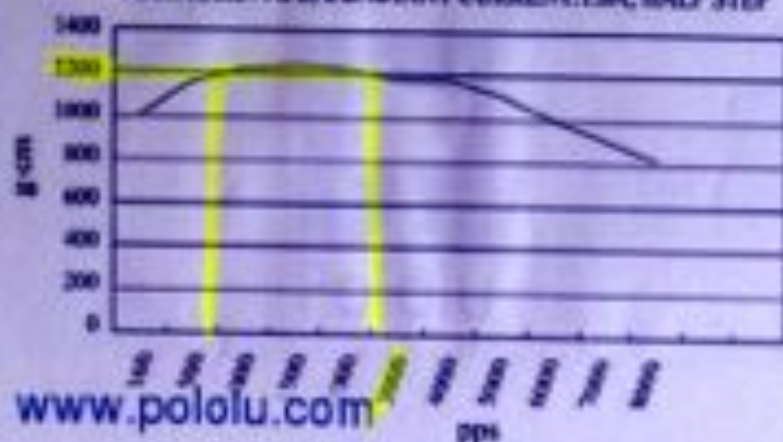


www.pololu.com



UL 1007 AWG26

SY35ST36-1004A PULL OUT TORQUE CURVE
VOLTAGE: 24VDC, CONSTANT CURRENT: 1.5A, HALF STEP

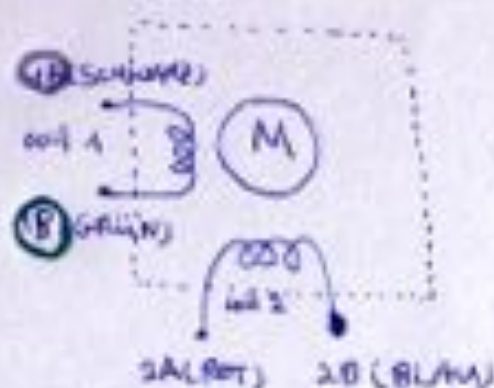


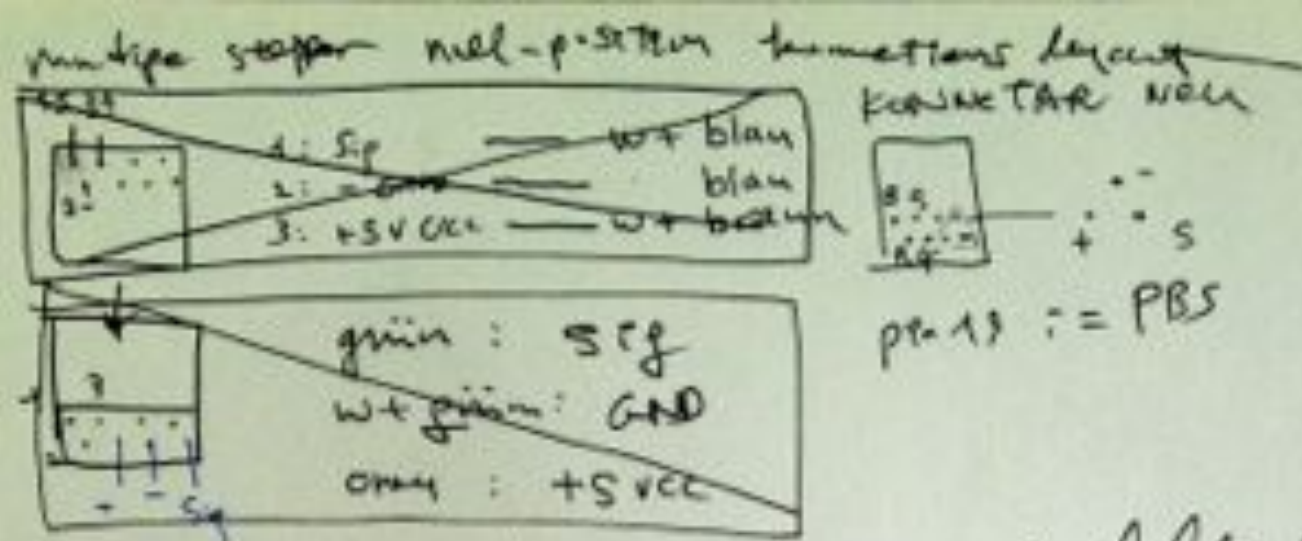
www.pololu.com

2L
4wca 23 ☒ grüne
26 rot schwarz
1.28
30
rot schwarz G410
gelbe
grüne
blau

grüne blau braun 28

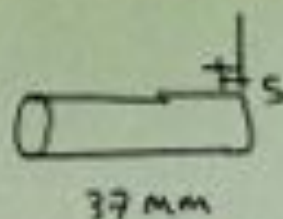
- 2B - BLAU
- 2A - ROT
- 1A - SCHWARZ
- 1B - GRÜN



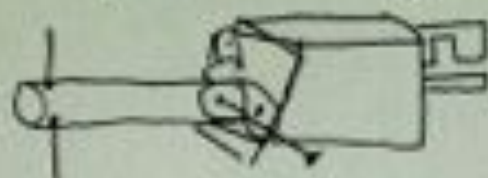


Mit den parolen zu der w.p.s.t.m.
Trotzdem die geliebte
Du y. als zufrieden mit
etwas, etwas fast wichtig ist
Gelt nach zuverlässig geht es
keine problem. Zufrieden y. spys
ist an positive dinge, heute ist
jordan nach mehr ich bei mehr
so stark man um die welt zu
erlebung. So produziere ich dich.
Das leben ist nicht so happy y. dann
ende, vermute ich, so leben wir
nicht so eig, sondern einfach
ohne. tiefe reise y. glanzvolle saure.
in vorderen in mehrheit. von
sprechen aus nicht.

prototipe
m 2000 b



$$\theta \times m = 7$$



15 20 mm: 90,99 step

$$m \text{ step}(F) = \frac{l}{0,2198}$$

$$l = 0,2198 \times m \text{ step}(F)$$

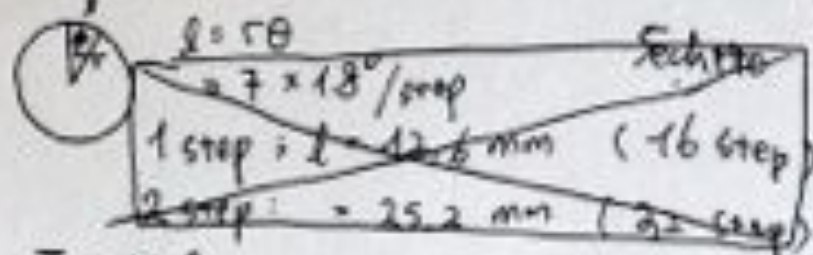
$$F. 1 \text{ step} : 0,2198 \text{ mm} = n \cdot l$$

0,2198 step

$$\theta = 1,8^\circ \times \text{step}(F) = 1,8^\circ \times 16 \text{ step}(S)$$

$$l = r \theta' = 7 \text{ mm} \times \frac{0 \pi}{180^\circ} = 7 \times \frac{1,8^\circ \times 16 \text{ step} \times 3,14}{180^\circ} \times \text{Steps}$$

$$144 : 7 = r = 1,9537 \times \text{step}(S)$$



$$\pi = 180^\circ$$

$$\theta' = \frac{\theta}{180^\circ} \pi$$

$$180^\circ (160 \text{ step}) = \pi \times 7 \text{ mm} = 21,98 \text{ mm}$$

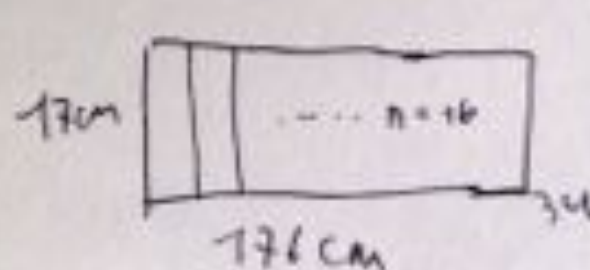
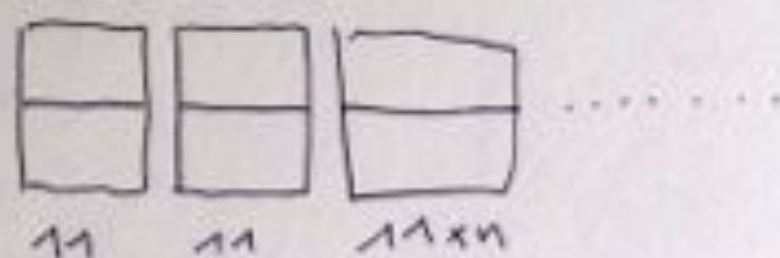
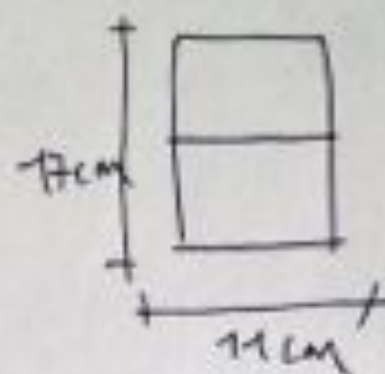
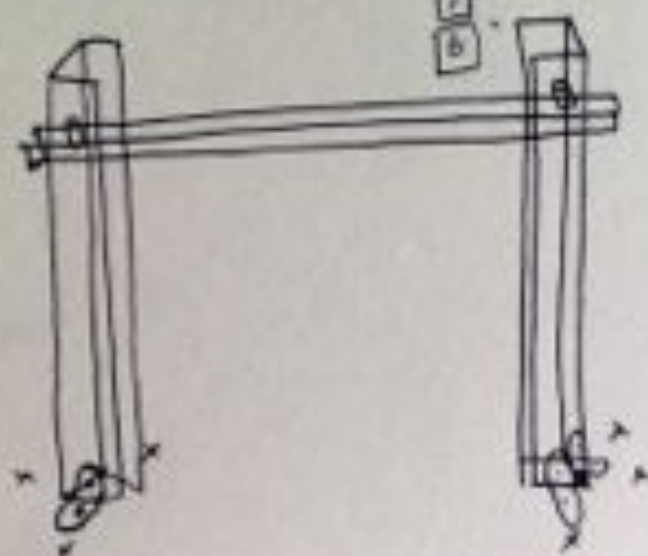
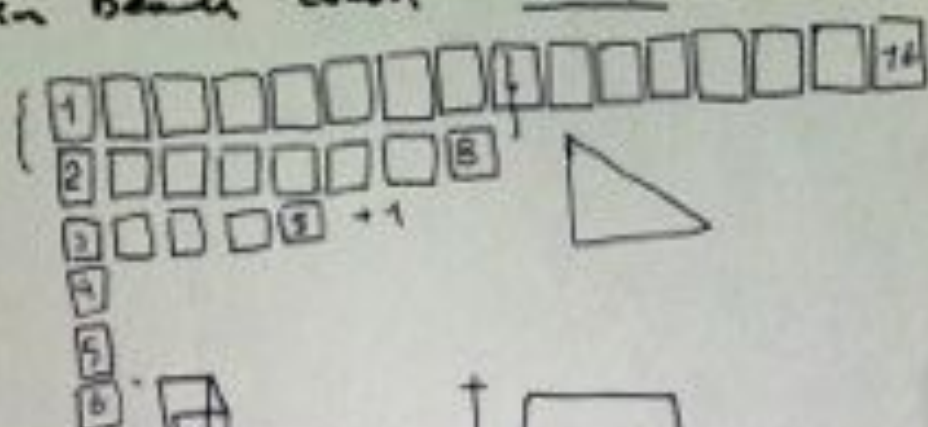
(1600 step) S

main trays are 17x17 cm

- Arch in Peruvian Beads Tray is 17 str

- bridge guard of

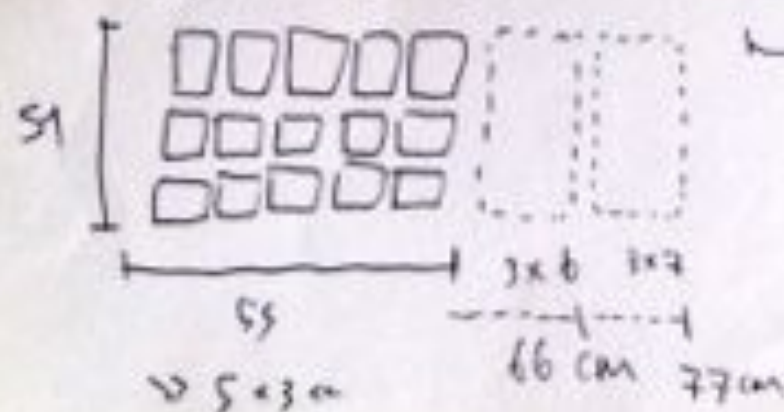
17 cm

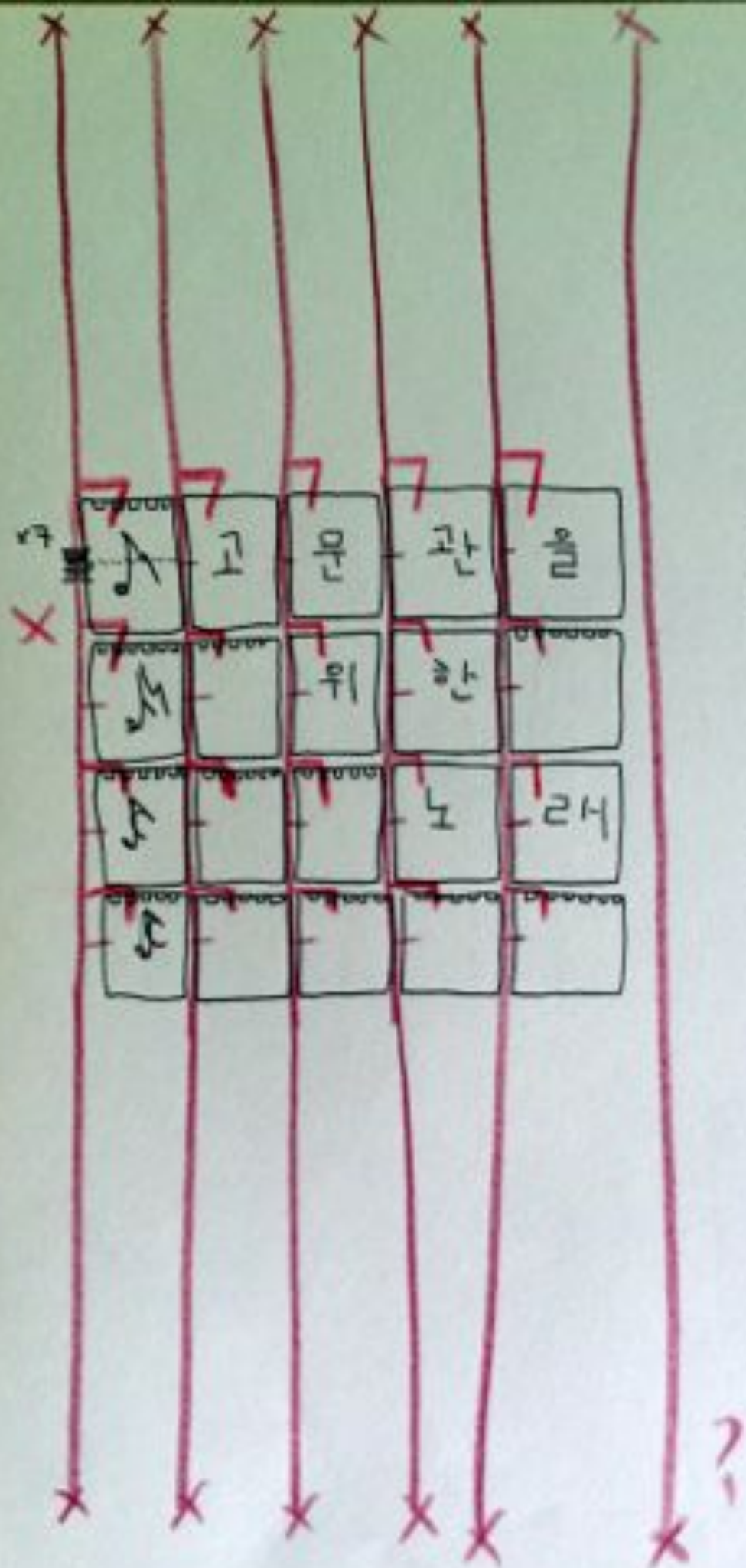


>> 1 x 16 <<

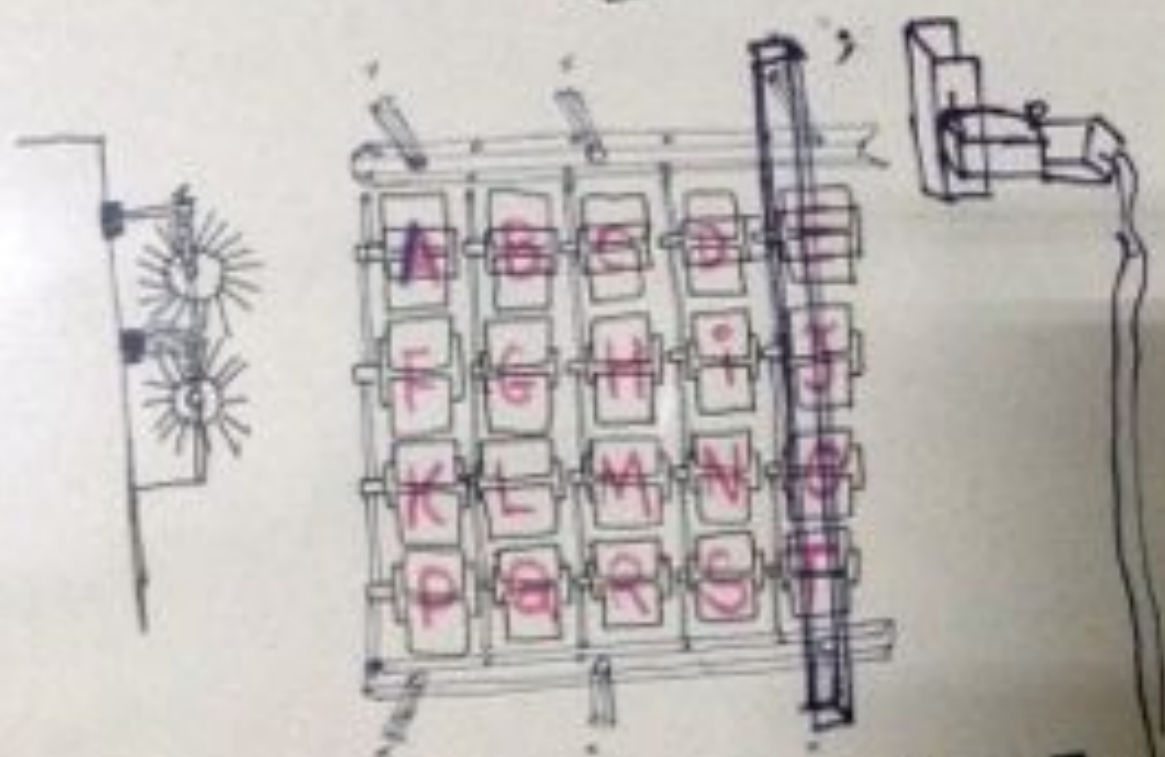
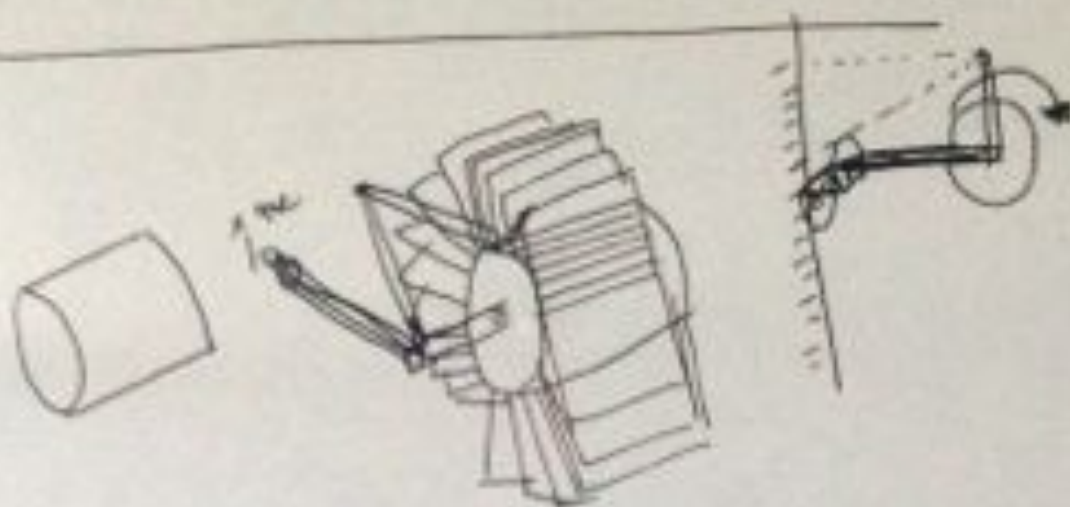
88

>> 2 x 8 <<



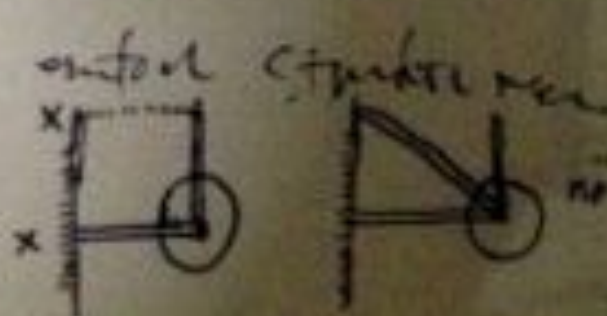
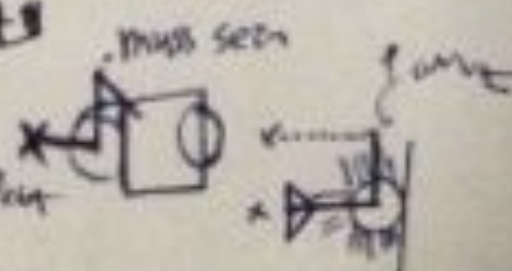
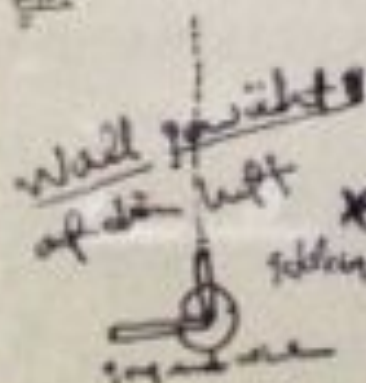
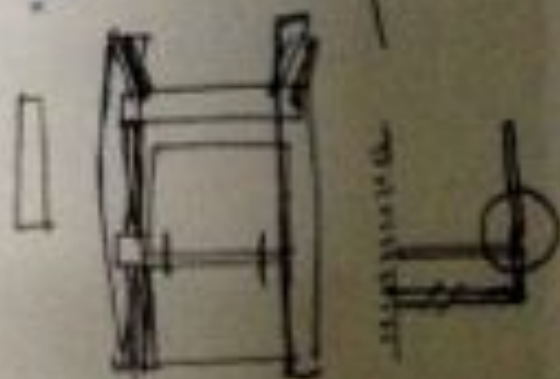
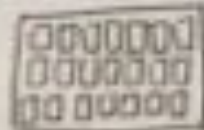


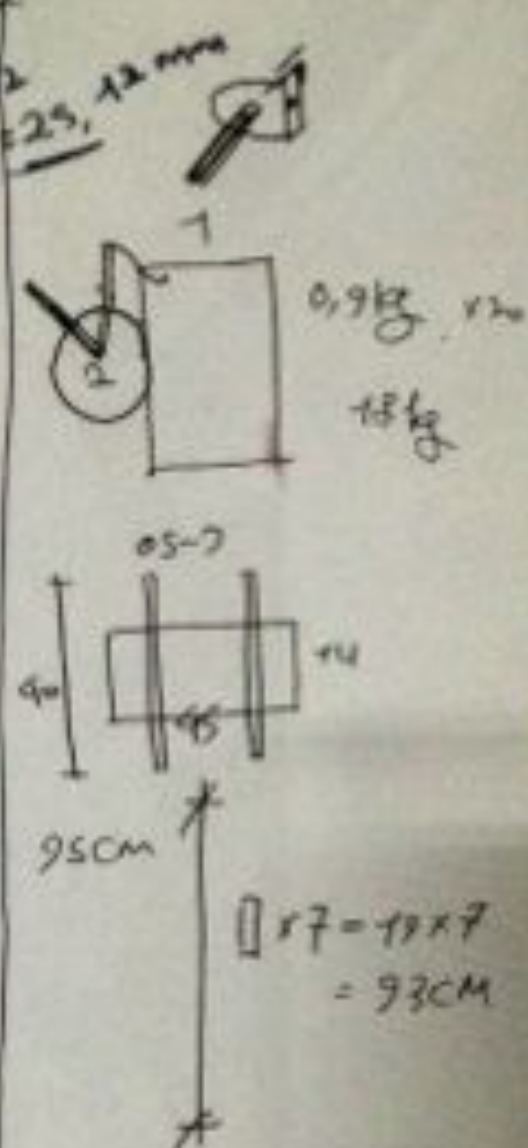
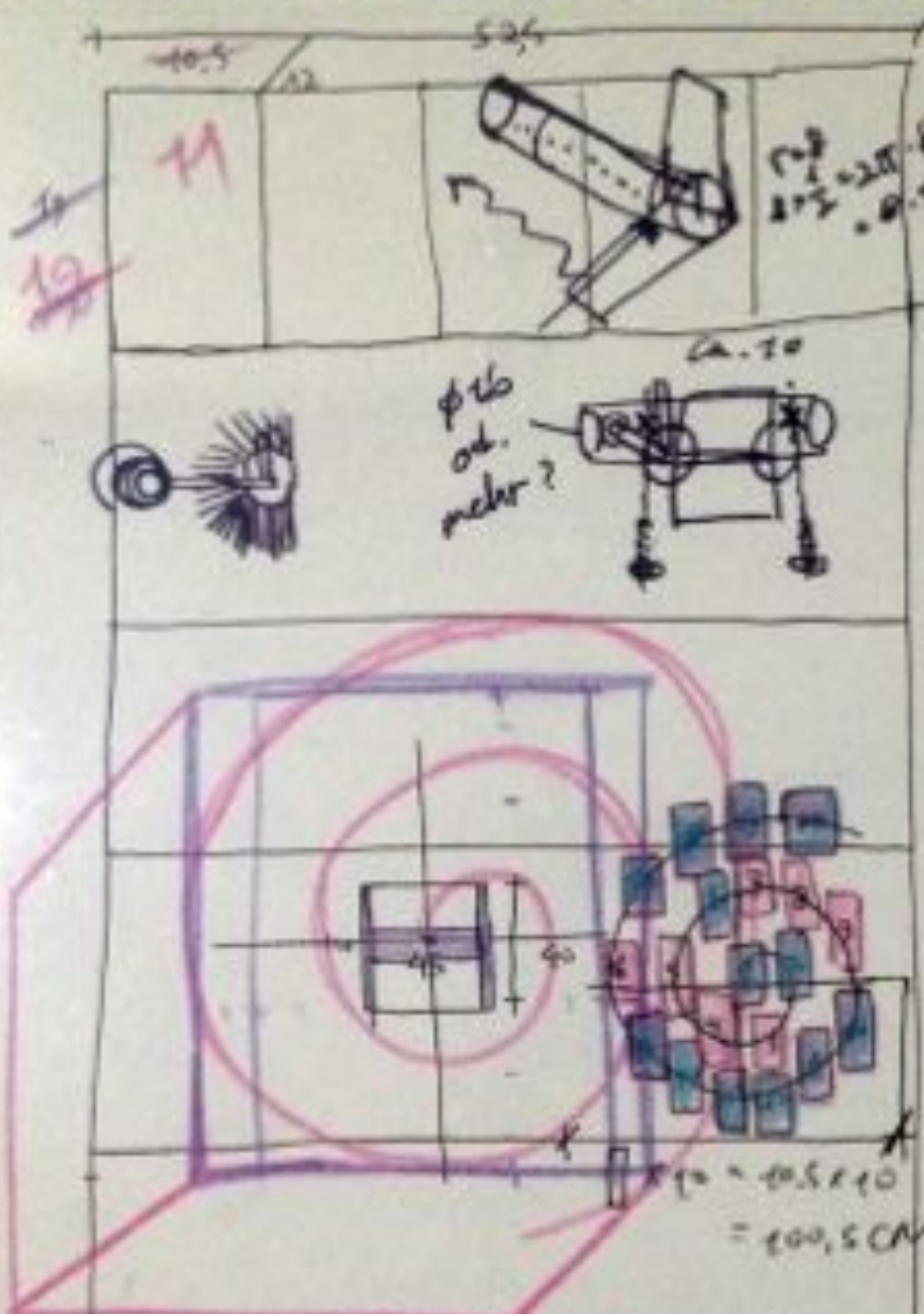
Handwritten signature and date: 16, July, 2000



$$2 = 1+2+3+4+5+6 = 21$$

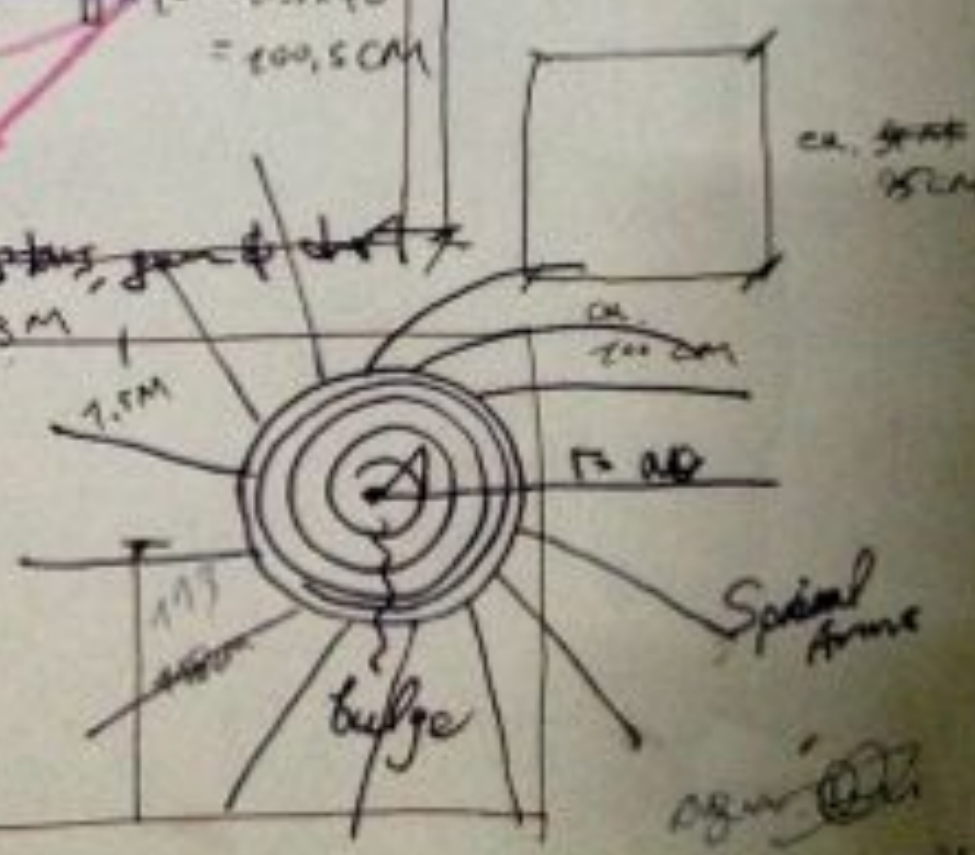
$$3 \times 7 = 21$$





> spiral galaxy
rotating disk M' 3M

75 cm
10 cm
20 cm
2
20 cm



» DAI my I2C <<

8 bit an 11 bit
 $\frac{0}{2} \frac{0}{1} \frac{0}{5} \frac{0}{4} \frac{0}{3} \frac{0}{2} \frac{0}{1} \frac{0}{0}$

~~N.B.~~

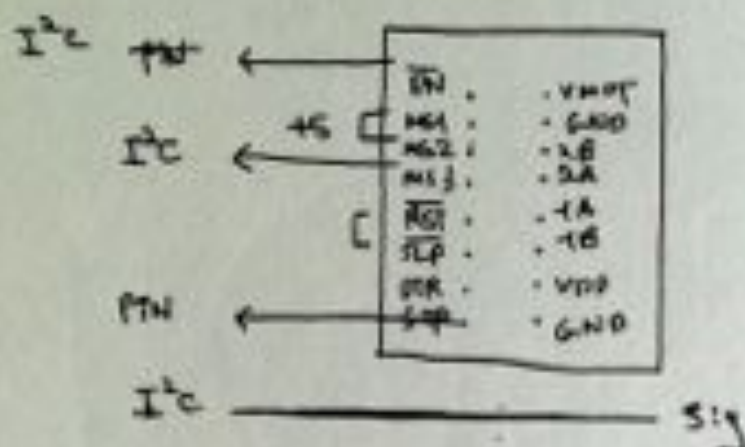
$92 \neq 101 \Rightarrow 6P$

Get Shift: position shift

if $a = 5$; 101

$b = a \ll 3$; 101000

$c = b \gg 3$; $\frac{101}{10_2}$



$PIN \times 1 \& I2C \times 3 \} \times 4$

$PIN \times 4 \& I2C \times 12$

$I2C \rightarrow LED$

$PIN \times 1 \& I2C \times 4 \} \times 4$

$PIN \times 4 \& I2C \times 16$

$1 \ll 0 \Rightarrow 1$

~~$1 \ll 1 \Rightarrow 2$~~

$1 \ll 1 \Rightarrow 10 = 2$

$1 \ll 2 \Rightarrow 100 = 2^2 = 4$

$1 \ll 3 \Rightarrow 1000 = 2^3 = 8$

$1 \ll n = 2^n$

then,

$1 \ll 8 \mid 3$

$100000000_2 \mid 10_2$

0

i.e. $pin 2 \sim pin 13$: output

$pin 11, 12, 13$: High

otherwise: Low

$DDRD = B11111110$ (1: output, 0: input)

$DDRB = B00111111$

$PORTD = B00000011$

$PORTB = B00111000$

Vorteile

alle LEDs werden
 eingeschaltet zu gleicher Zeit
 > Several microseconds

MCP 23017

N.B.

(1,x) (0,x)



$I^2C \rightarrow \overline{EN}$
 $I^2C \rightarrow MSB$
 $PIN \rightarrow STP$ (DIR weg)
 $I^2C \leftarrow Sig$
 LED Relay

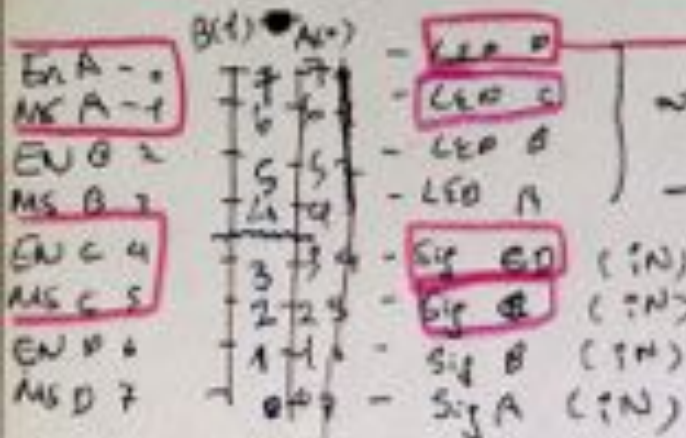
$\overline{EN}$ (out)
 MSB (out)
 Sig (in) LED braucht nicht zu I^2C
 $\times 3 \times 21 \approx 63$ gebraucht

MCP23017: $\times 1$: 16 pin
 $\times 4$ chips
 $\frac{64}{16}$

un chip 16 pin $\rightarrow$ 15 ad. $\times 4$

$\overline{EN}$ out
 MSB out
 Sig in
 LED out

$21 \times \{$
 A B C D E F G H I J
 K L M N O P Q R S T
 U



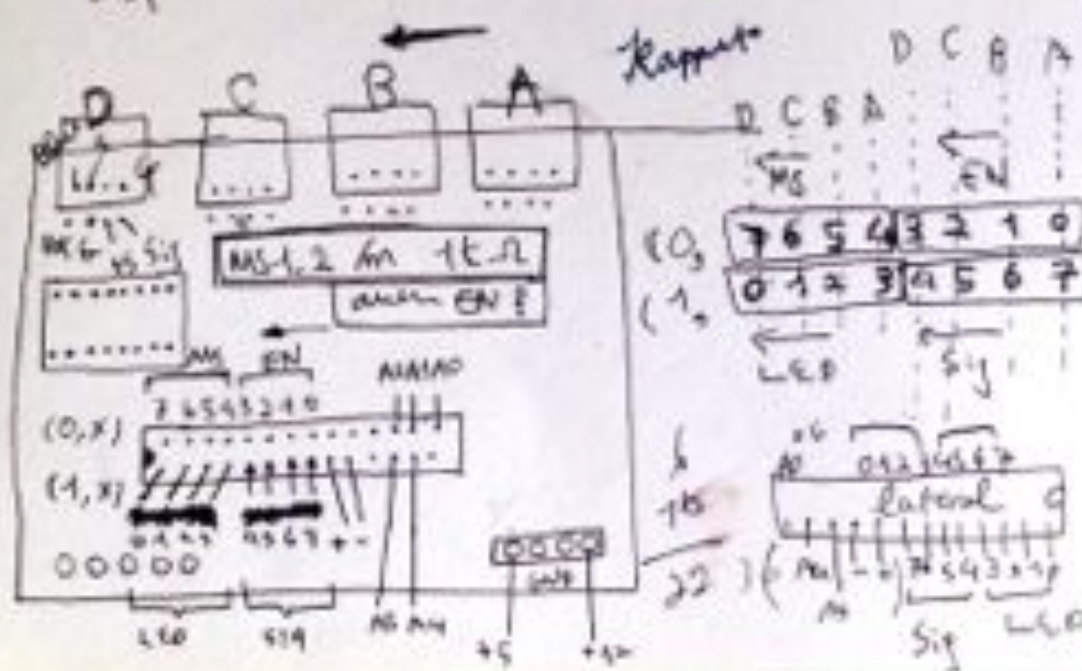
a : kein enable
 A : off

Step 0 /
 off A
 MSB 0/5

0 $\rightarrow$ 4

2A
 3A
 4A
 5A 90
 6A 9 $\times 10 = 0.009$
 0 $\times 10 = 0.000$

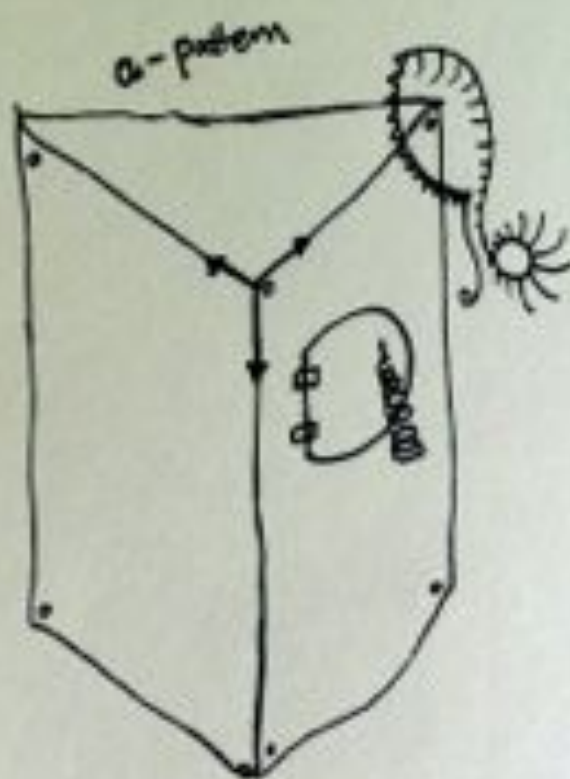
5A
 5A / a



$\times a$ - x step für
 $\times A$ - kontrol A

$1A$: off
 $1A$: on
 $2A$: octo
 $3A$: sechs

$4A$:
 $5A$: 5A, 5A, 5A



BA9 OIR

WEG MACHEN

24 —



24. AUGUSTO. 2011

> Algorithmen

SW gebracht?

1. Serial Multiplier → Strom fest
2. original $\overline{EN}$: Low, dann
3. Erste Null-p machen

für sequence select gate

Flup 150
(Miete 200)

350
Lohn 200

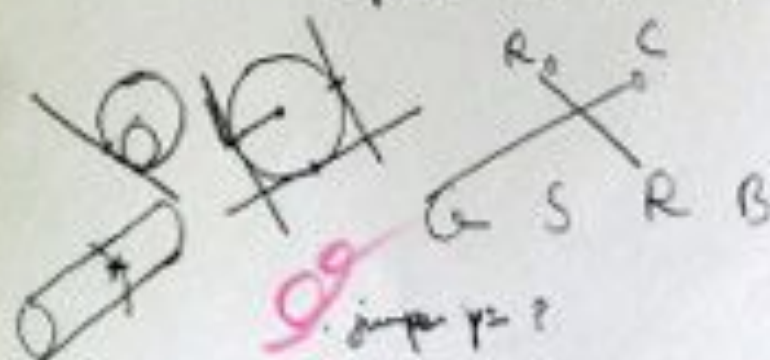
550
+ rat 50

600
()

400
ponto 100

500
()

700



jump y2?

~~Grundriss~~
~~47~~

Kleiner als 47
4 ~~42~~ 3m

Step y $\overline{EN}$?

(a: ON - STOP - OFF) NÖ

NULL-p: ON - STOP BY NULL - OFF

> SLIP test <

verbleibt nō

SLEEP timer

der lateral

B. 9. x 04

14 15 16 17

18 19 20 21

22 23 24 25

26 27 28 29

30 31 32 33

34 35 36 37

38 39 40 41

42 43 44 45

46 47 48 49

50 51 52 53

54 55 56 57

58 59 60 61

62 63 64 65

66 67 68 69

70 71 72 73

74 75 76 77

78 79 80 81

82 83 84 85

86 87 88 89

90 91 92 93

94 95 96 97

98 99 100 101

> Materialliste <

~~X~~ PCB Appl.ing

25x34 Punkte (72x95mm)

x 4

~~X~~ RJ-45

4x4 (auf PCB)

1x6 (auf Modul)

~~X~~ AWG 30 (Vore-wärping)

x 2 (mit, magnetisch)

~~X~~ DIP 28 Pin (200mil)

6-stk x 5 (t)

~~X~~ Pb nachqualifiziert

~~X~~ DIP 8-pin Subst 15 (t) 10

~~X~~ EP4333 F (FHC412.542-5340f)

2.54 40pin/440

3x4 = 12 → 15

~~X~~ L28 Gold

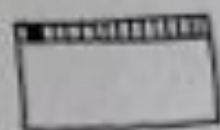
4x4 = 16 → 17 20

~~X~~ L28 rot-ma-braun

5x4 = 20 270-2

~~X~~ L28 braun-schwarz-orange

10K 4x4 = 16 → 20



polothis

Anna Pemna

> Guigral

Ubuesque

東文藝 文藝新書

N-1041 - 186, 3780

> OPTO-ELECTRONIC FEED BACK
 Code ASCII compatible (Gray-Code); where two successive values differ in only one bit.

7 bit for pos. position

$$\begin{matrix} n=1 \\ 0 & \begin{cases} 0 \rightarrow 00 \\ 1 \rightarrow 01 \\ 1 \rightarrow 11 \\ 0 \rightarrow 10 \end{cases} \end{matrix}$$

eg. Position Encoders

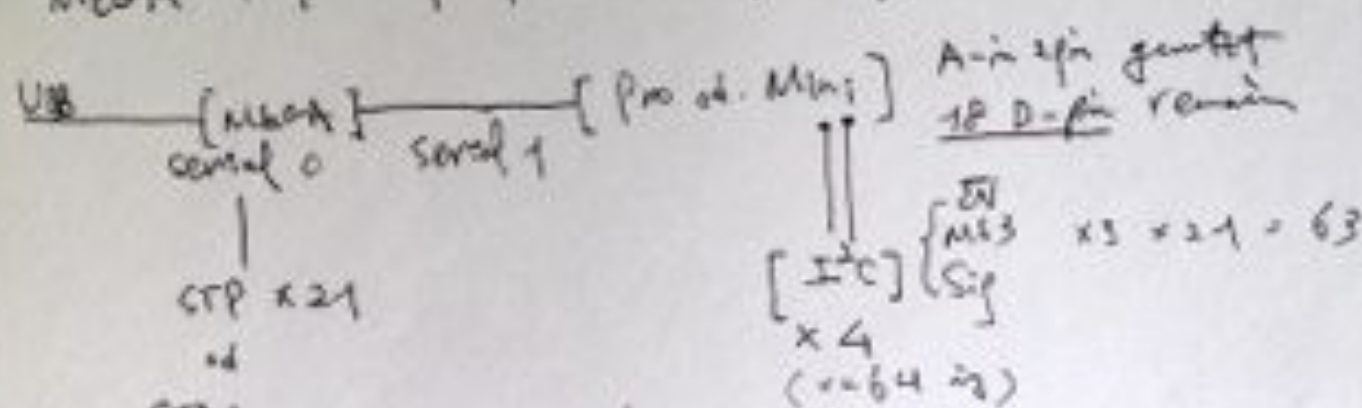
> MEGA: alle 4 pin Dig 54 (14 pin) & A-input 1b = 70 pin

STP. } x 4 pin/stoppen x 21 = 84 pin
 EN. }
 MSB. }
 Sig

STP. } x 3 x 21 = 63
 EN. }
 Sig

> Phantomsynthese > franc-tiers > it < > it m 21 <

MEGA 70 pin & Pro od. Mini 20 pin



STP. } x 3 x 21 = 63 / MSB & LED
 EN. }
 Sig

Ex. MEGA, STP. } x 3 MSB.

Ex. MEGA, & Pro wiring

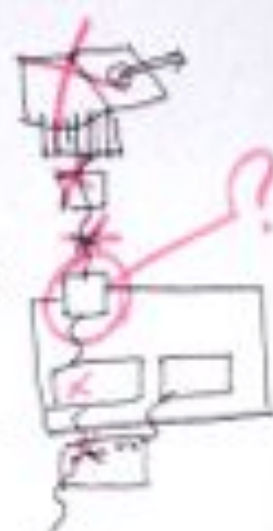
Ex. MEGA & Pro durch zwei-WS

PROBE. Vier Stopper warum?

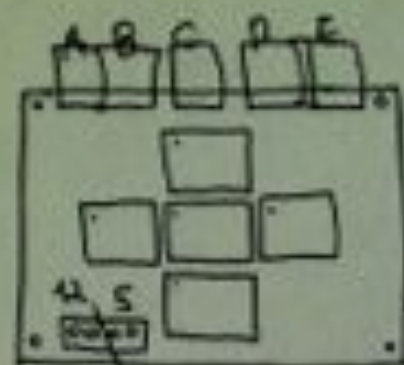
Es 6 könnte in front

0 1 2 3 4 5
 A

hinter

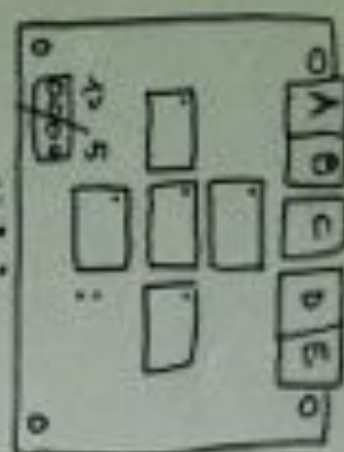


KONE 31 Aug 2012



STP
EN
MSB
Sig
GND am Ard.

A B C D E A B C D E E
Sig
MSB
x40



> MEGA inge. 70 pins

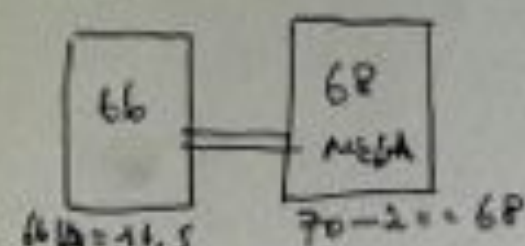
FAN? + GND

12 pin neu

STP
EN
MSB
Sig

x 24 = 63 (minus 7 : zu viele Kontakte getrennt werden)

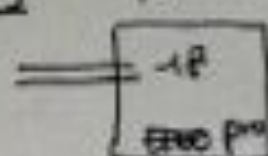
70 (-2 RX/TX -2 RX/TX für Serial 1) = 66



66/3 = 22

66/3 = 22

70-2 = 68



20-2 = 18

18/4 = 4.5
18/3 = 6

= 134/4 = 33.5 mit MS

134/3 = 44.9 y MS

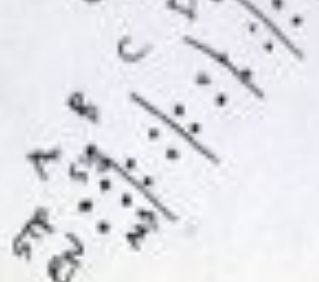
= 84/4 = 21 mit MS

84/3 = 28 y MS

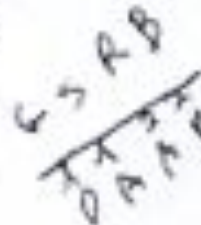
32, nur ein y MS
durch mehr mehr noch ein
dan, zwei fang

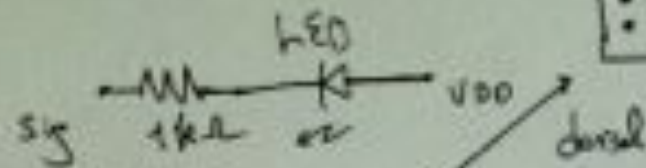
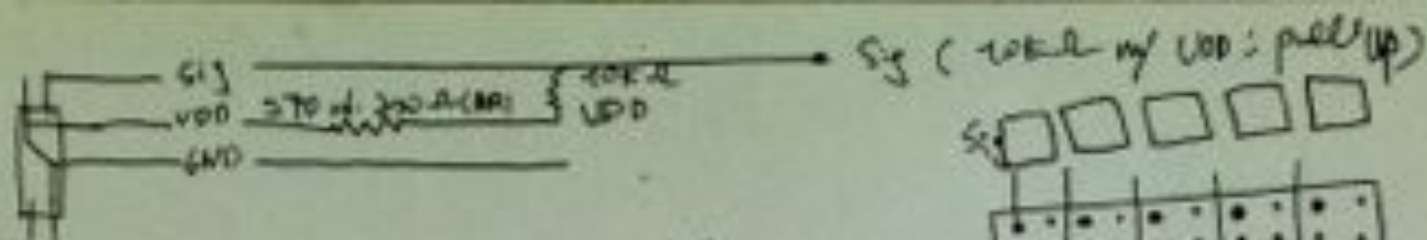


Serial E

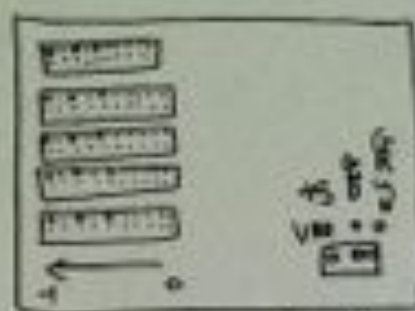


Serial





OK 20pF

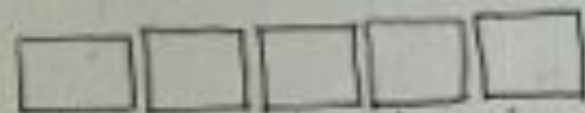


STP Sig
En Aus
Lateral

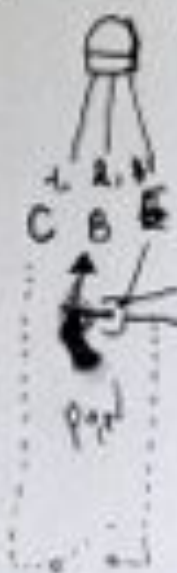
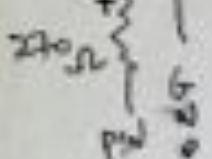
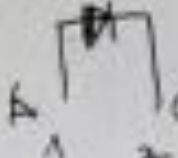
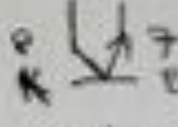
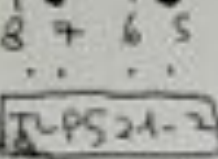
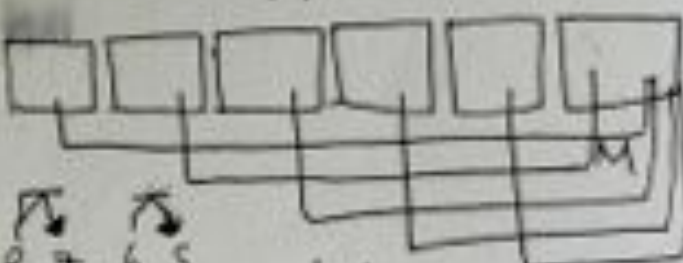


channel

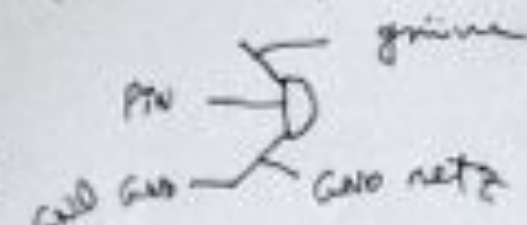
1



M



NPN BCS47



grüne
Gelb Grün
Gelb netz



100 Schichten x 5 == 500 x 10

HF: 1/2 octave band analysis 10 - 160 Hz, ≤ 20 dB
(90 Hz to 100 Hz)

destructive interference
methode feedback + feedback

ER fließt $\leftarrow$ durch magnetische Achse

- in USA word re.

- in UK Advanced-Fluid-System

Electro-Rheological 기구론은 1973년에 시작
기후변화를 비롯하여 여러 가지 환경 문제
해결, 생물공학, 의료기술, 우주 기술, 군사 기술 등
x msec reaction

Mag-Prob

chain arrangement
 $\times$ kV. Σ (223) spot ($\times \mu\text{A}/\text{cm}^2$)
 So, Σ (223) spot



» Developing Actuator Kaser for broadband Vibrator/Noise
1999.10.25 - Kautel

→ Fabrication of monodisperse silica-polythiophene core-shell nanospheres for electrochemical biosensing applications

③ 음양론의 계통 < 자연론, 형식체론

Wassa, ER fluid, Quartz Crystal Vibrator (4MHz - 10MHz)
→ Piezoelectric

>> Schneiden <<

Foto 00-fig



bis 16 φ

hoch | pul?

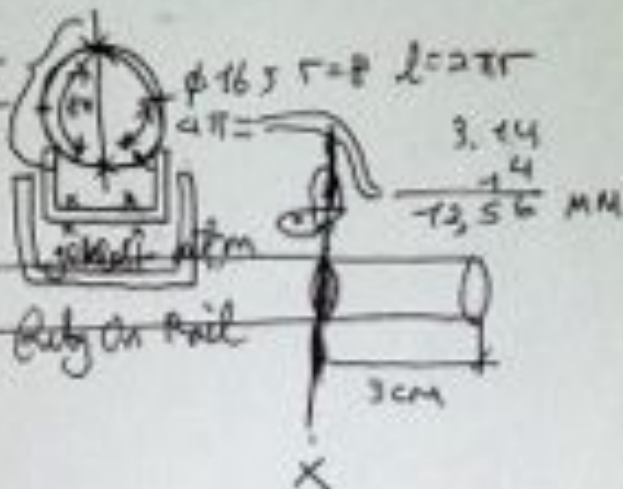
1.

2.

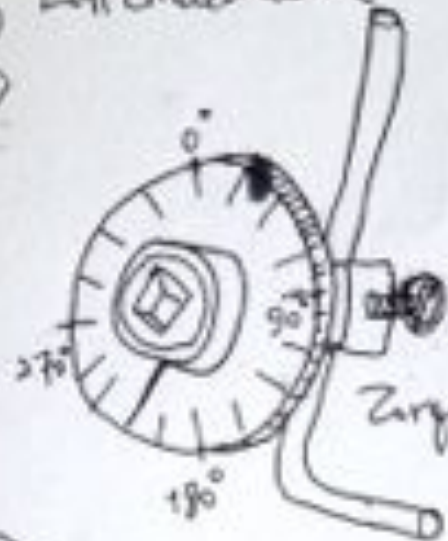
3.

BUSHING

φ 5 zu < 16 φ - 2 = 14 φ



Luft Emulator



Torque Analyzer



17. Sep 2011

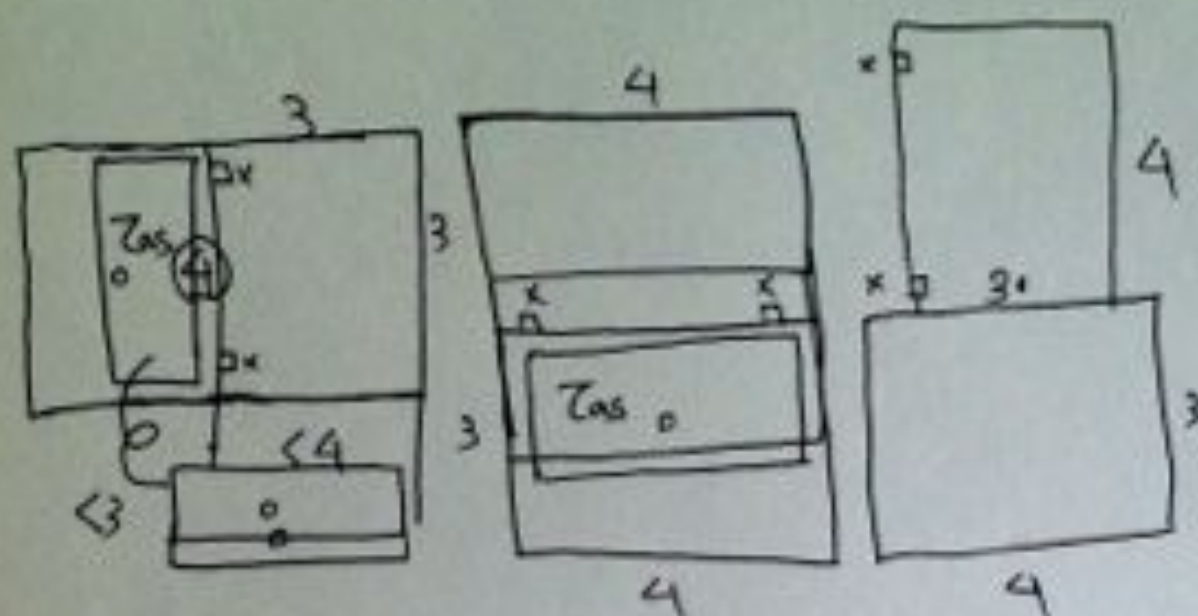
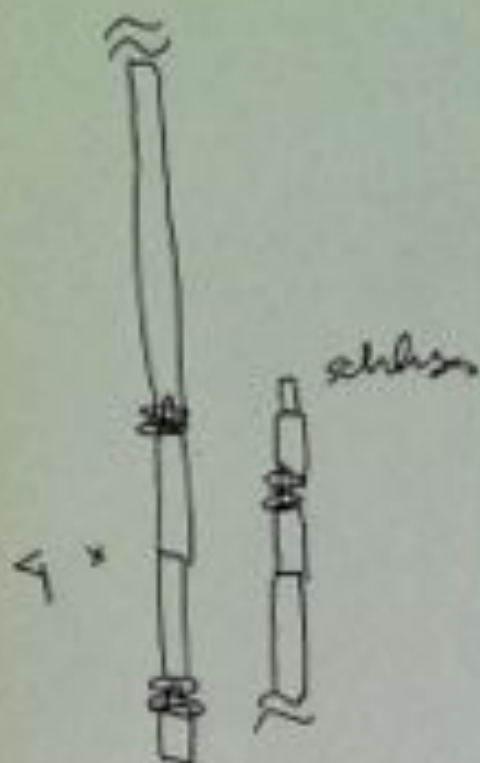
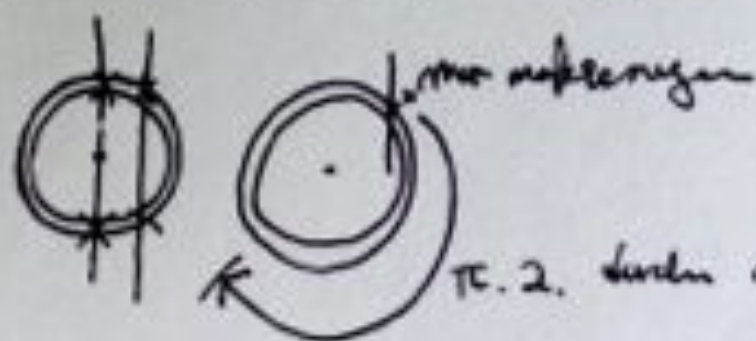
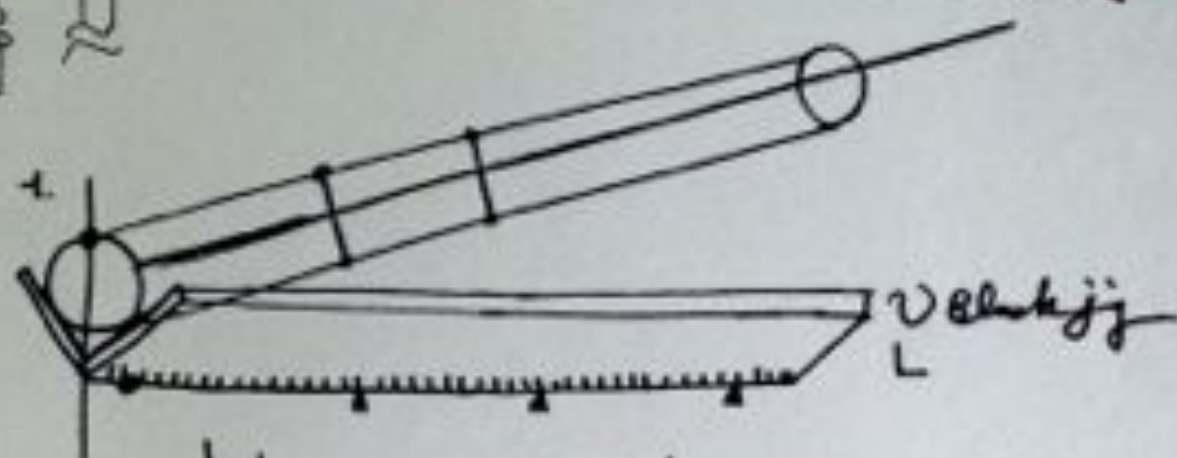


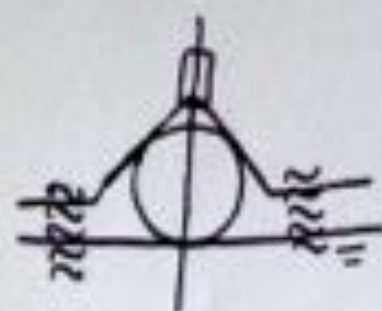
Foto d. fig
PROTON

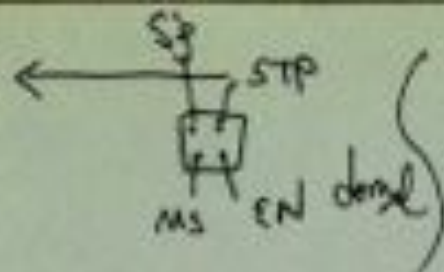


o. gendevus



π. 2. d. u. d. n. a. g. n. a. t. a. n. d. i. g. i. n. i. e. 2



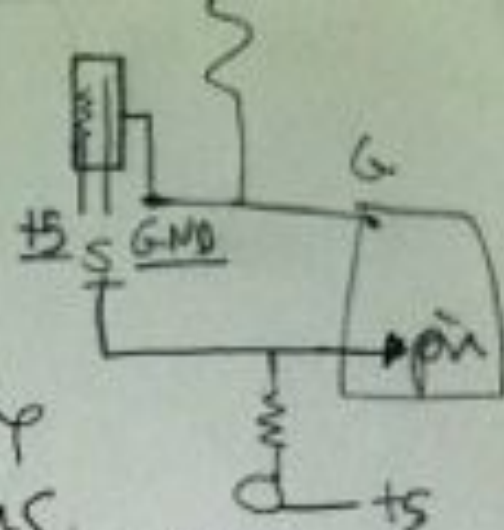


Sabir's

Org - 1. STP 2. Sig

Mag - 3. EN 4. MS

Ways



Blau

AL78
ARDMEAT 256

STP X
Sig X
EN X
MS X

STP Sig

EN MS

lateral

usable able

0 - S3 DS 4 x
A0 - 15 : A16 x] 70.
- DATA 5 x 10
60

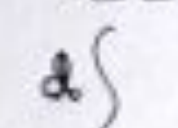
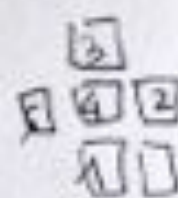
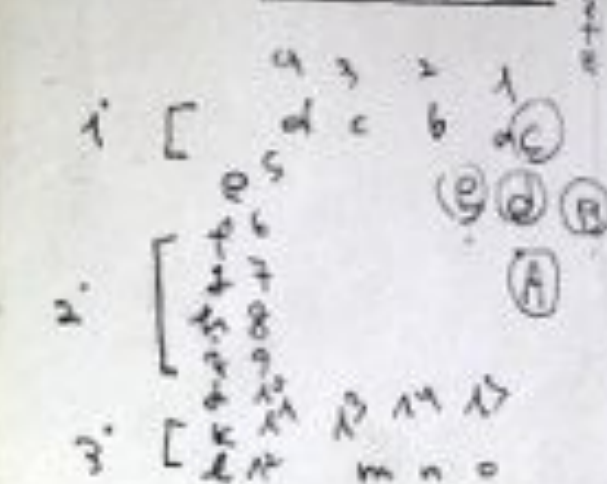
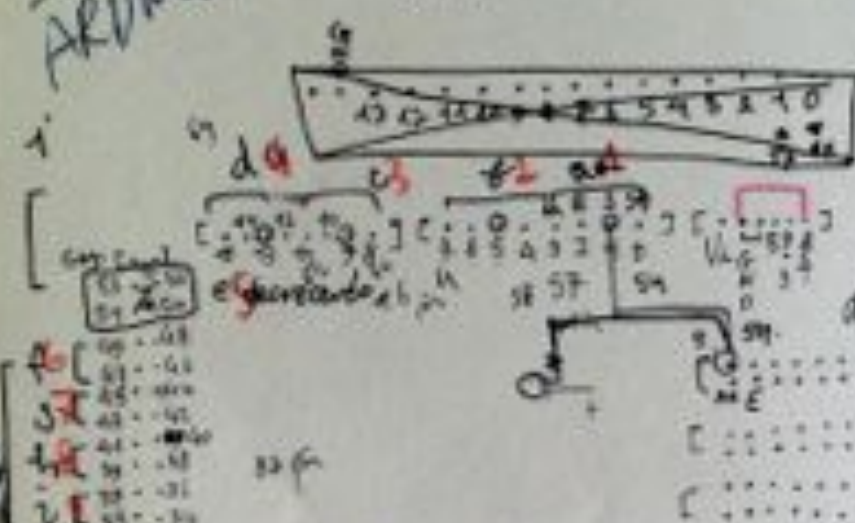
x 20 x 5
x 20 x 5
x 20 x 5

2 x 60 2 x 15 stopped

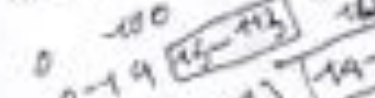
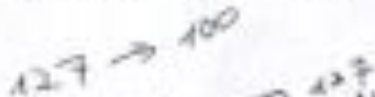
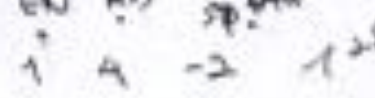
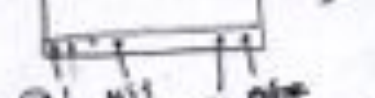
4 : 15

3 ;

+5 Sig

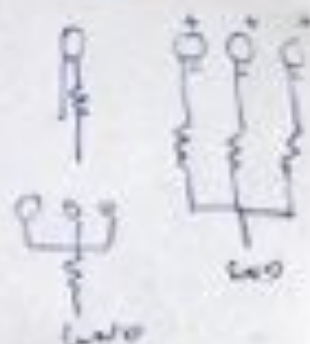
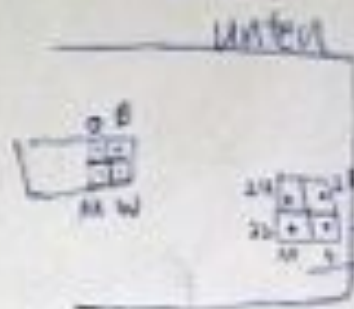
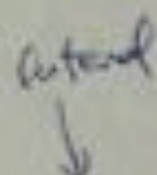


deby

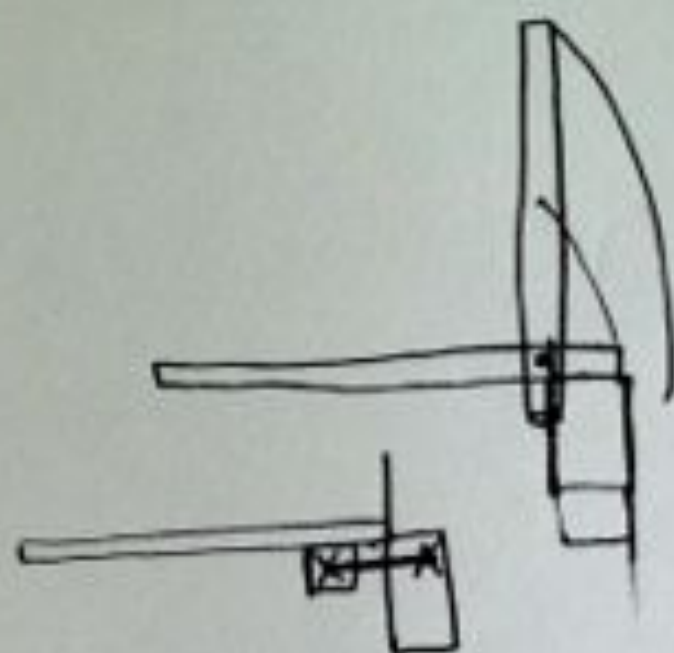


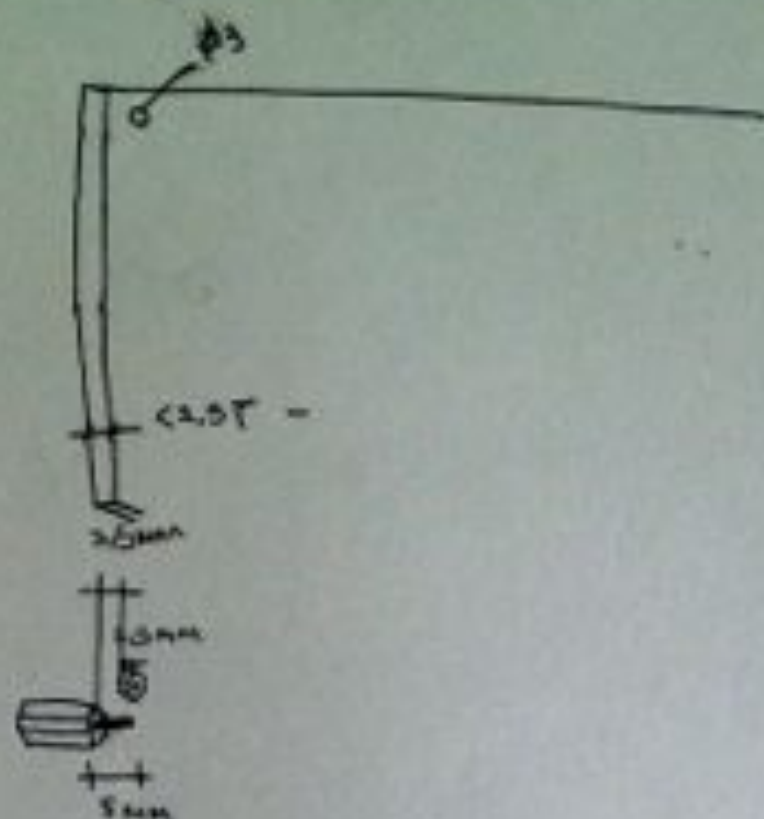
Für 100 Mega 255
freit m 5.0 J

first m' 5.0 J

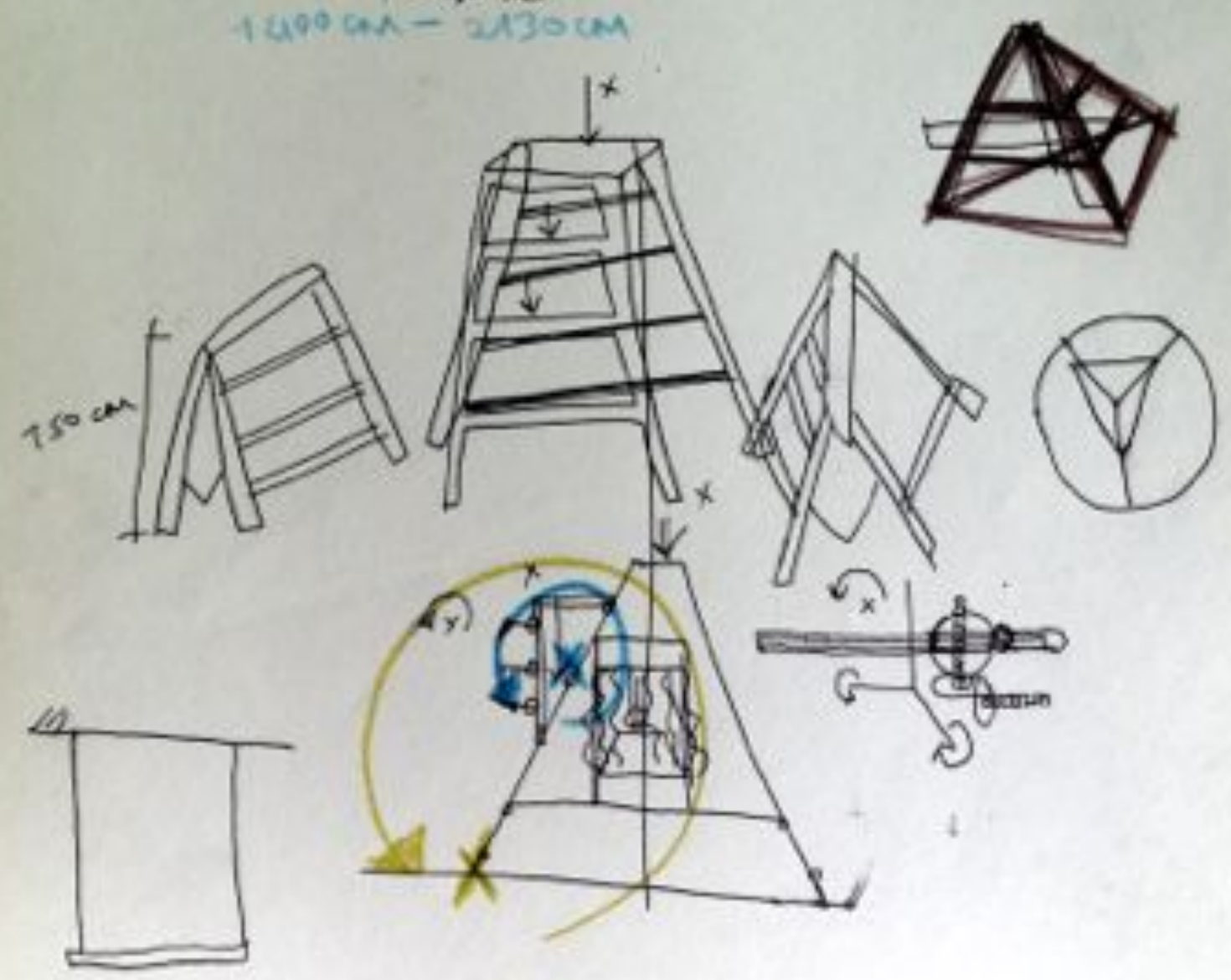
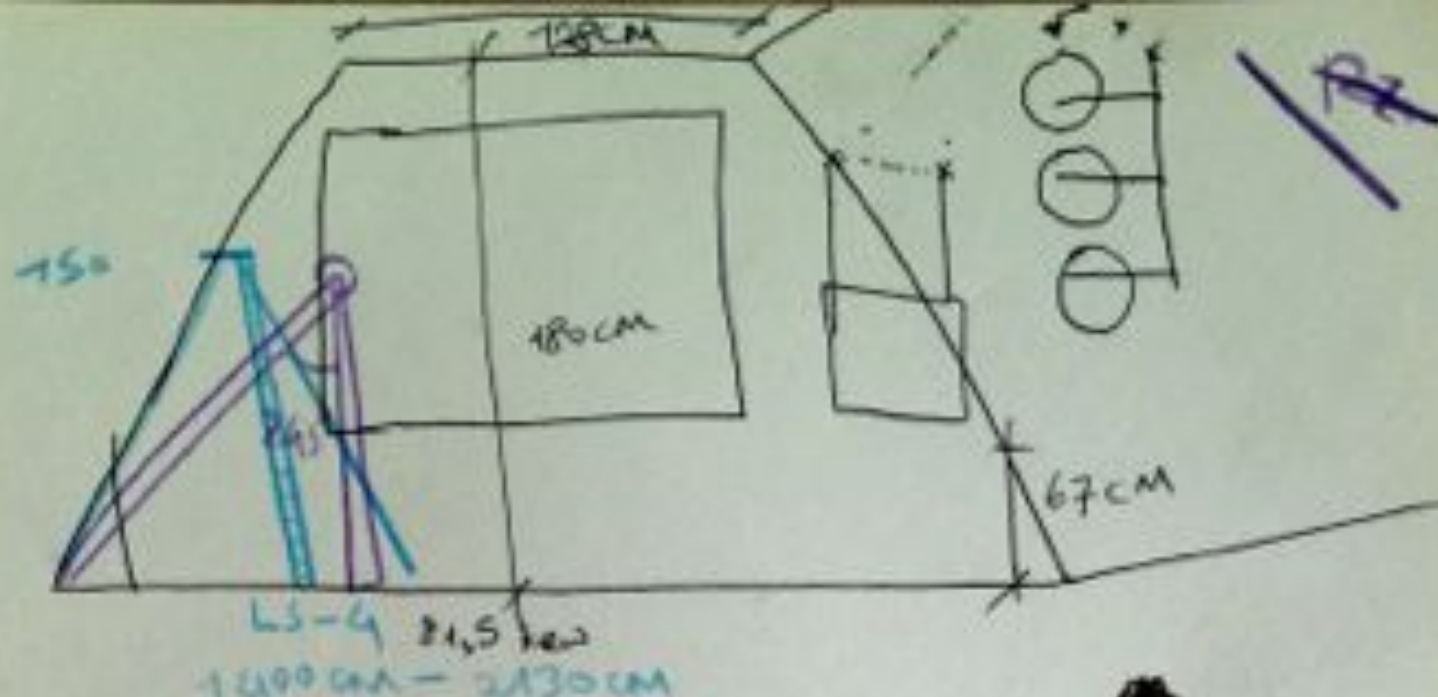


9. 6. 2043

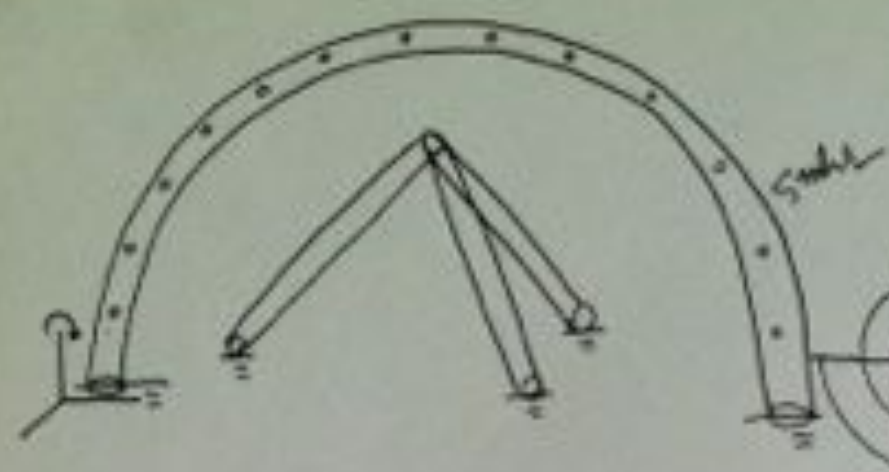




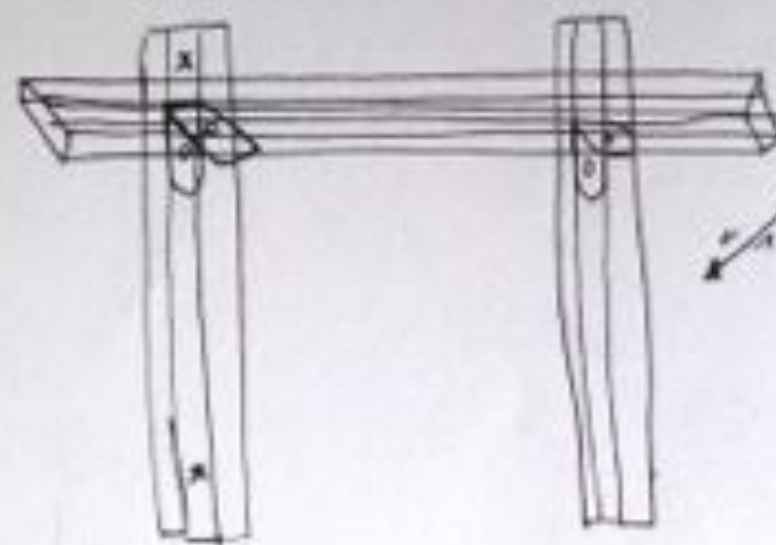
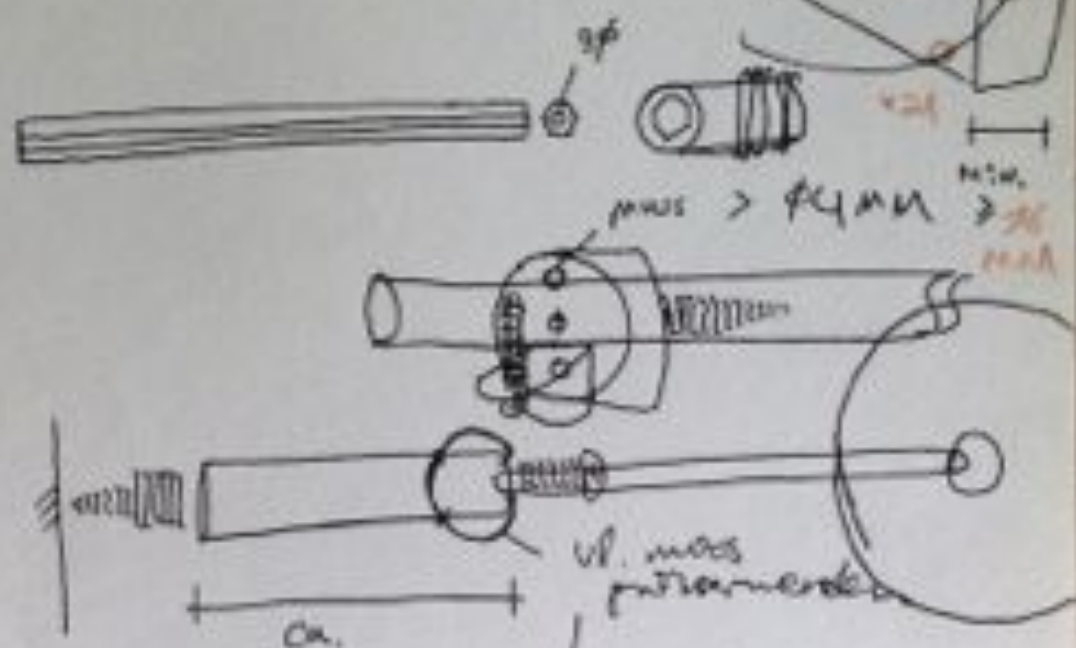
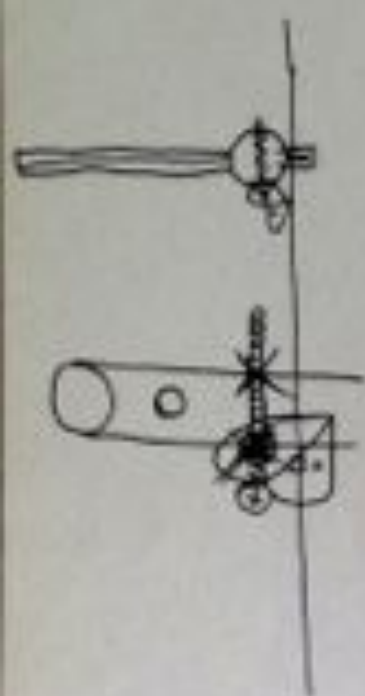
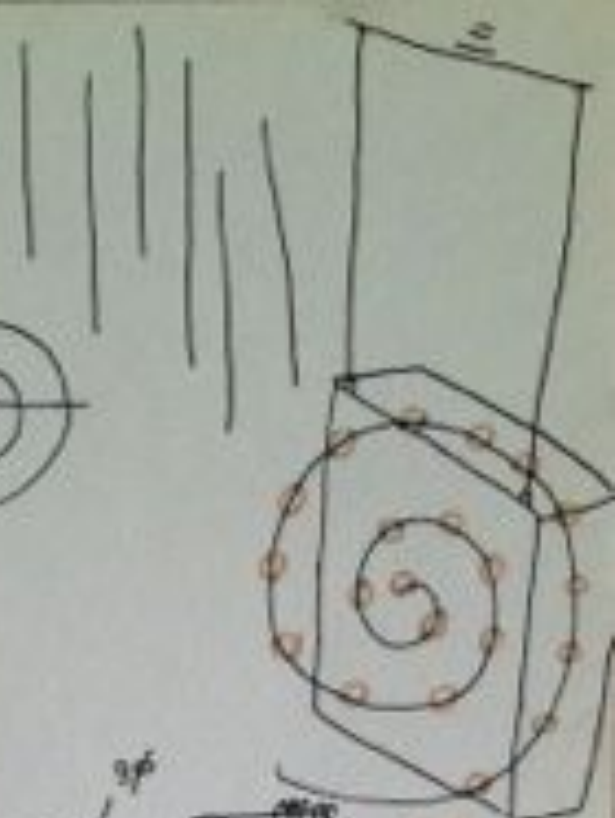
glant
~~glant~~



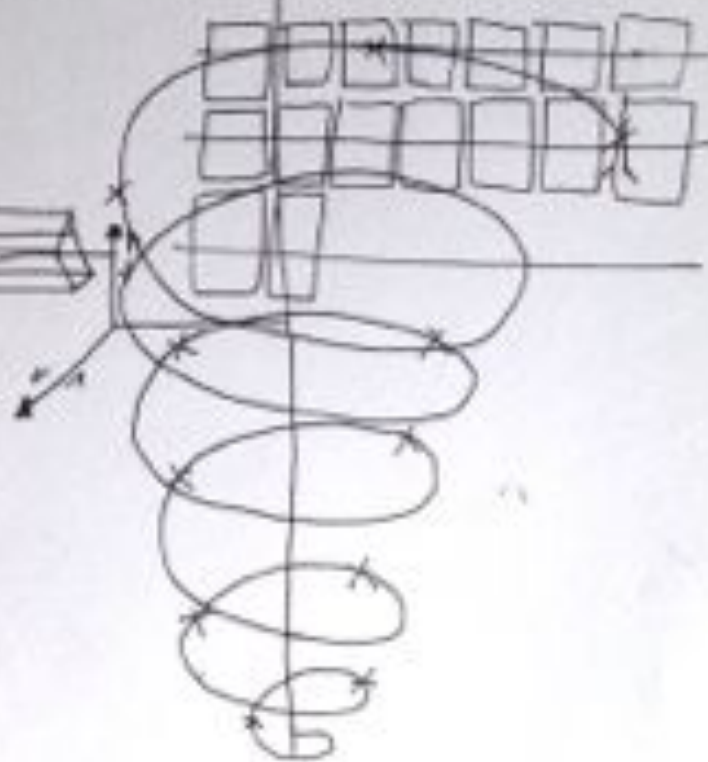
* Yongin Duboiser Installation es

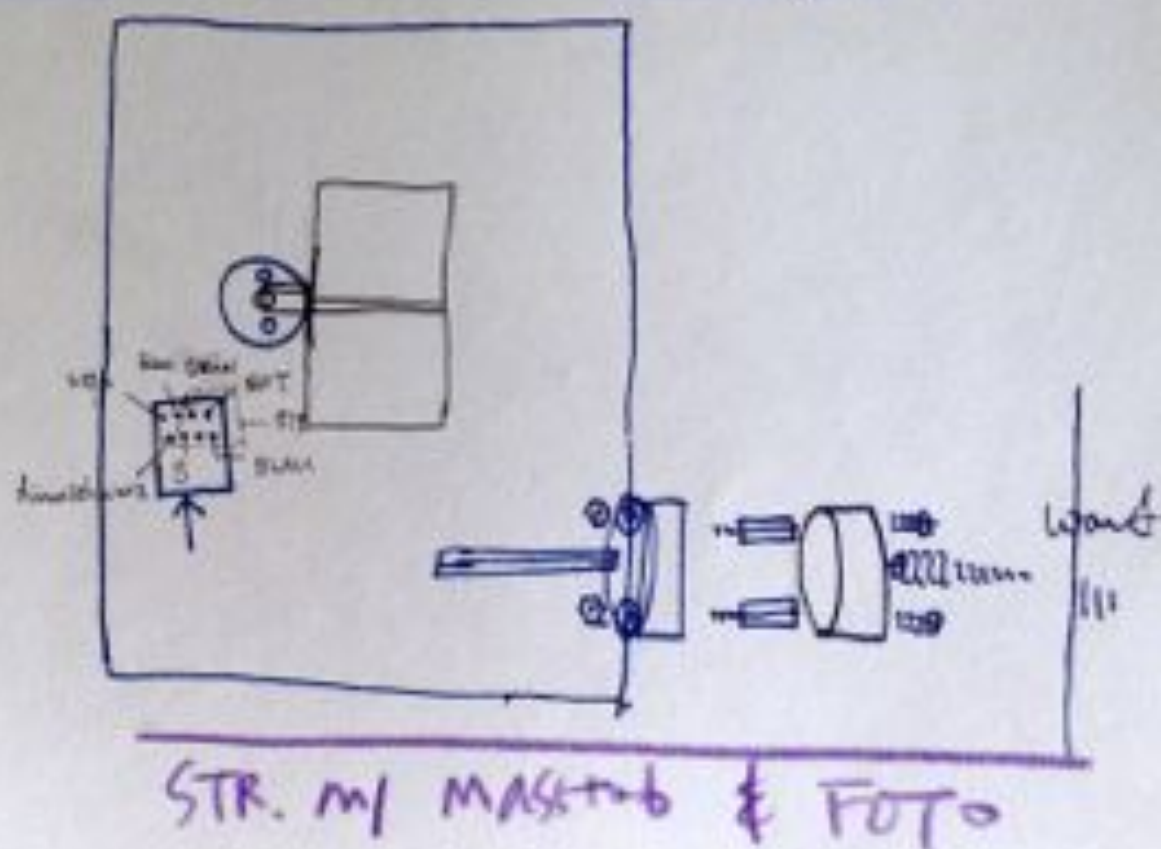
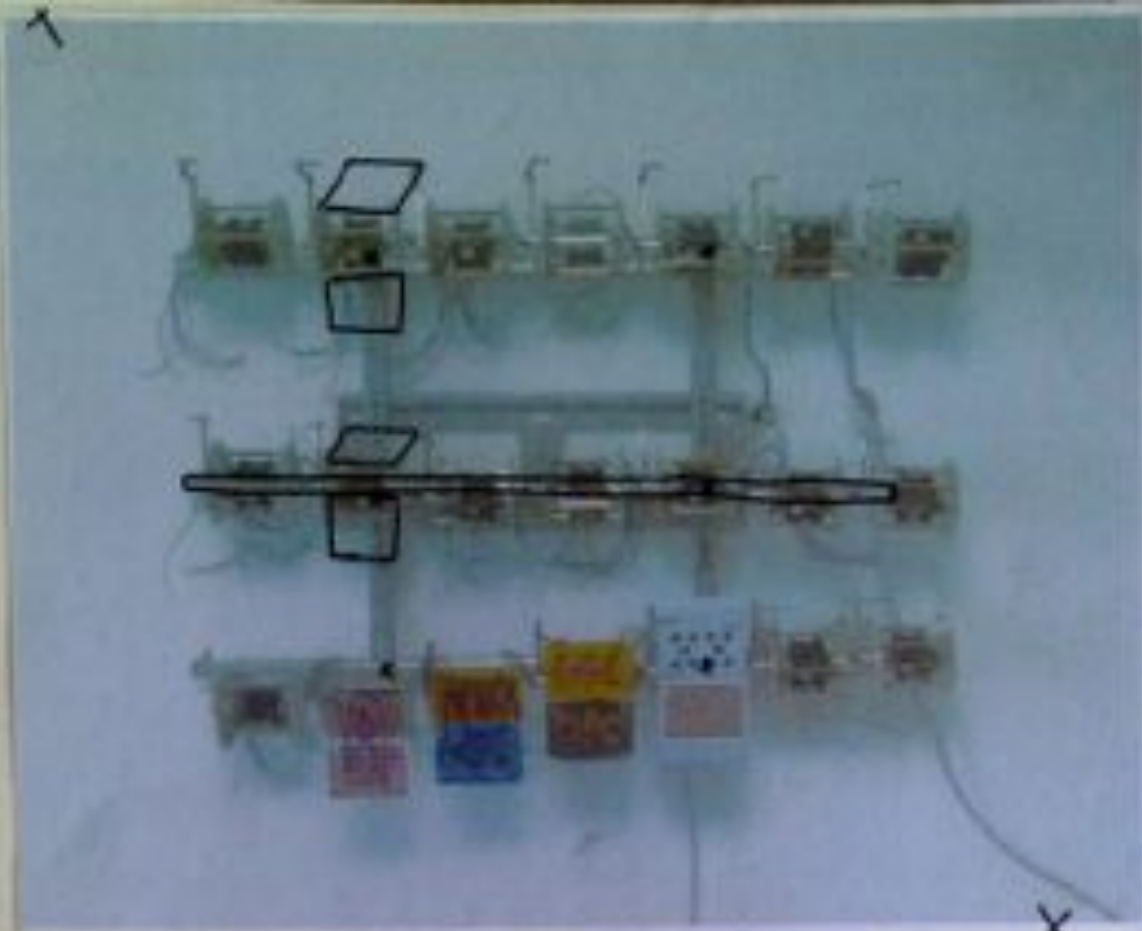


Arbeitsweise Positionen

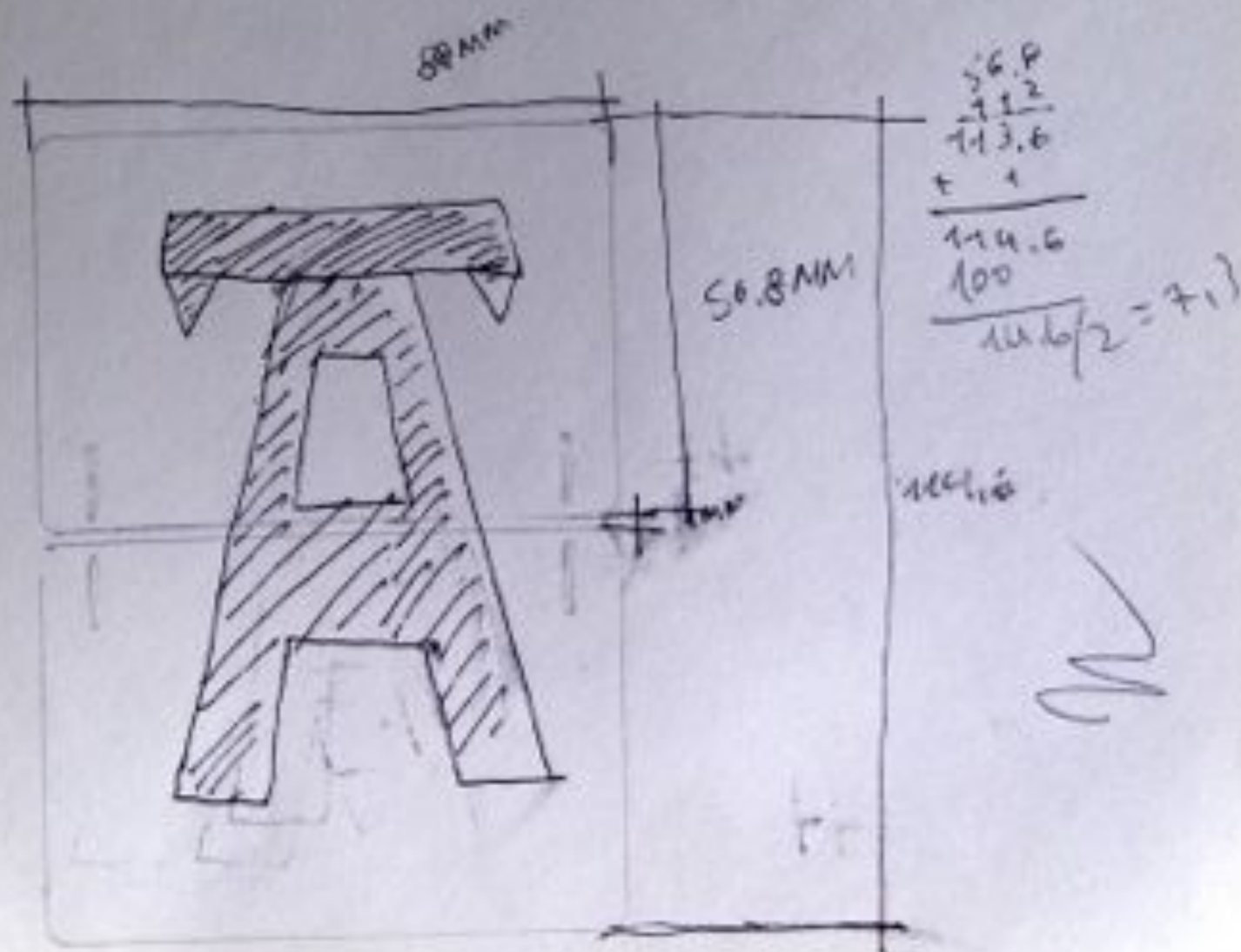


Installation in



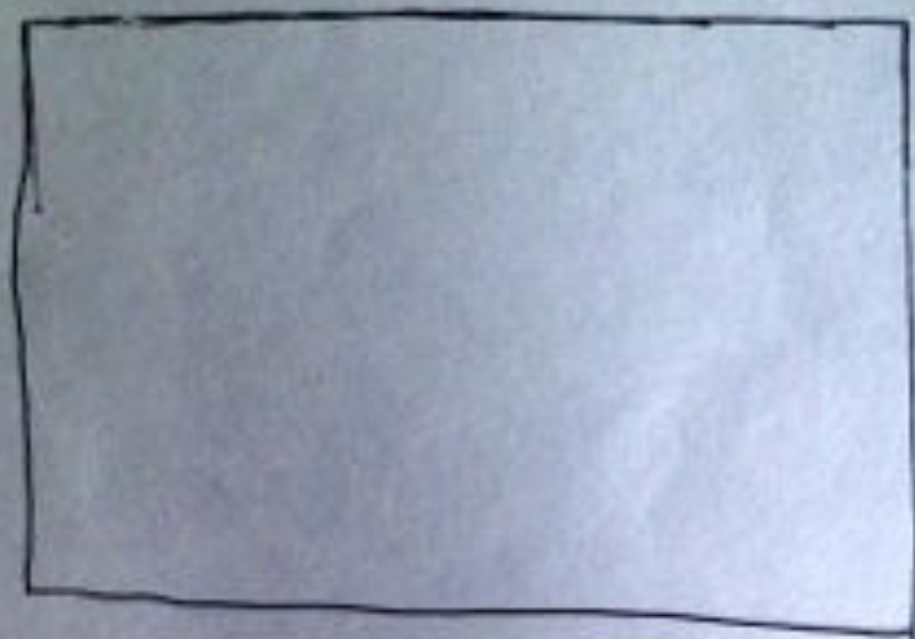


A B C D E F G H
 I K L M N O P Q
 R S T V W X Y Z
 A B C D E F G H I K L M
 N O P Q R S T V W X Y Z









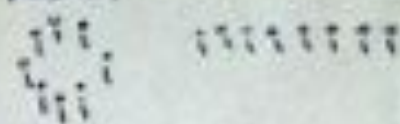
$$\begin{array}{r} 141 \\ \hline 72 \\ \hline 69 \approx 70 \frac{1}{2} \quad 35 \\ 34.5 \end{array}$$

26 April 1944
2013



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

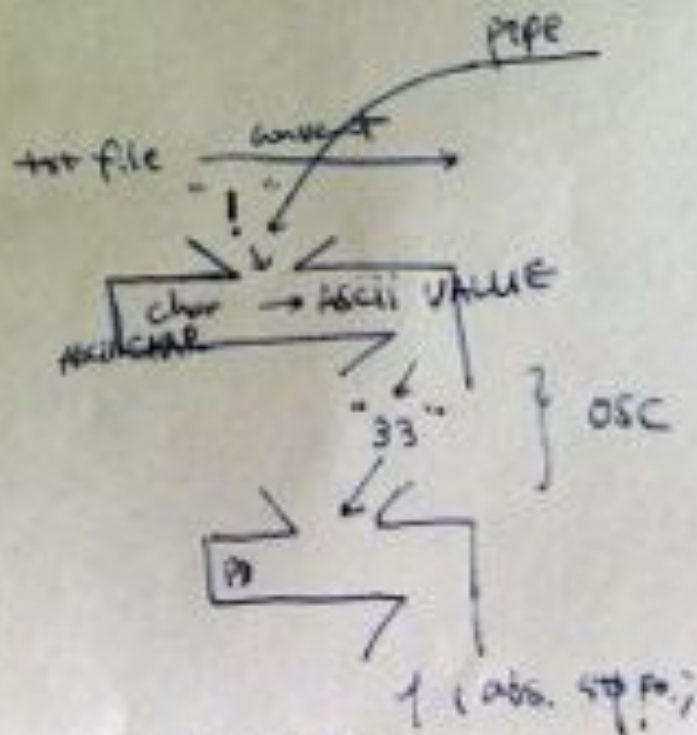
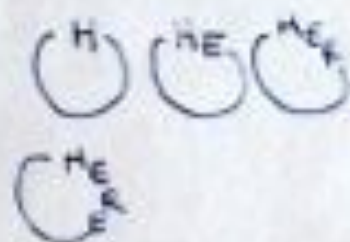
* MES 2.



* MES 2.



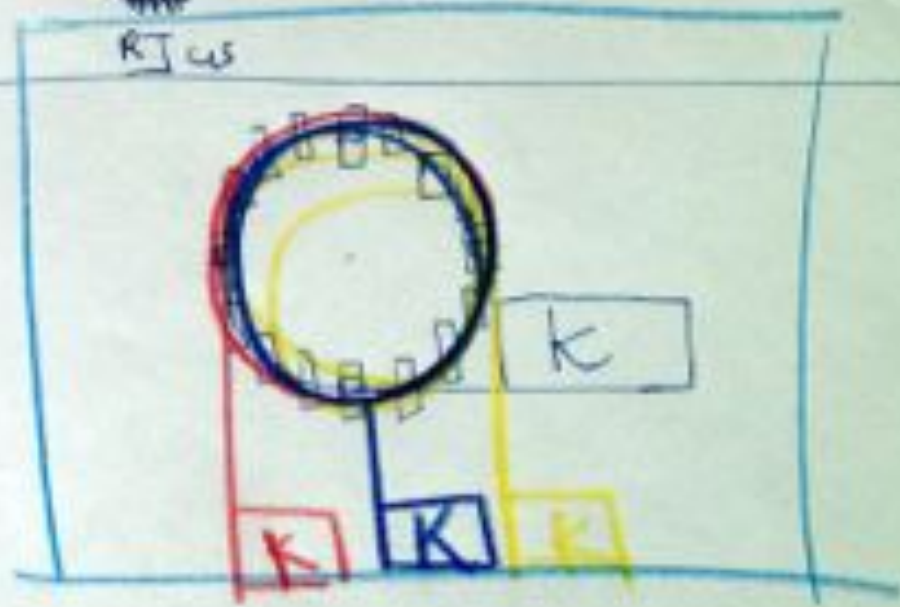
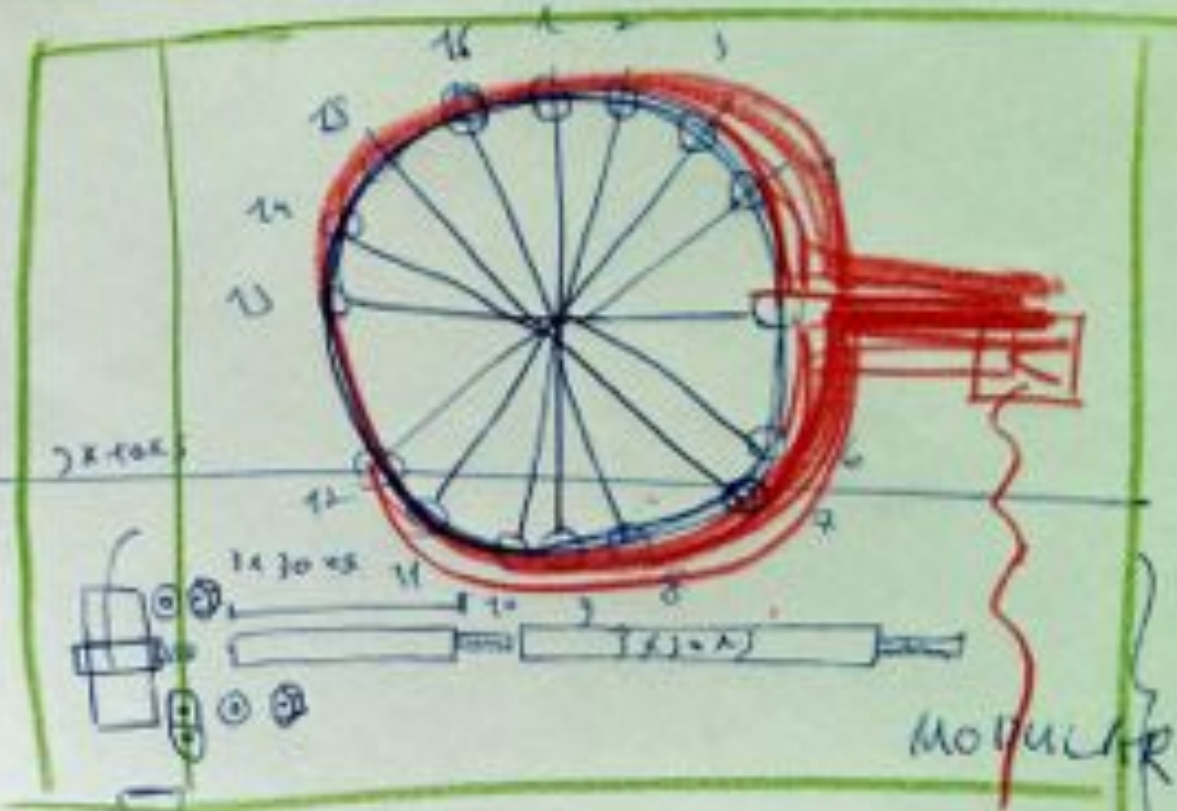
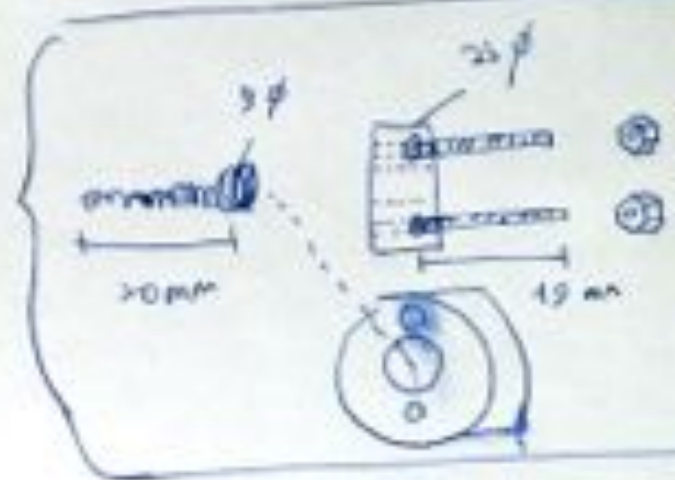
timing



note als to char

to char

1M + sleep

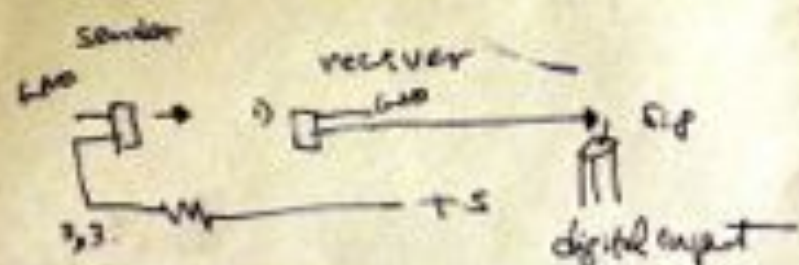
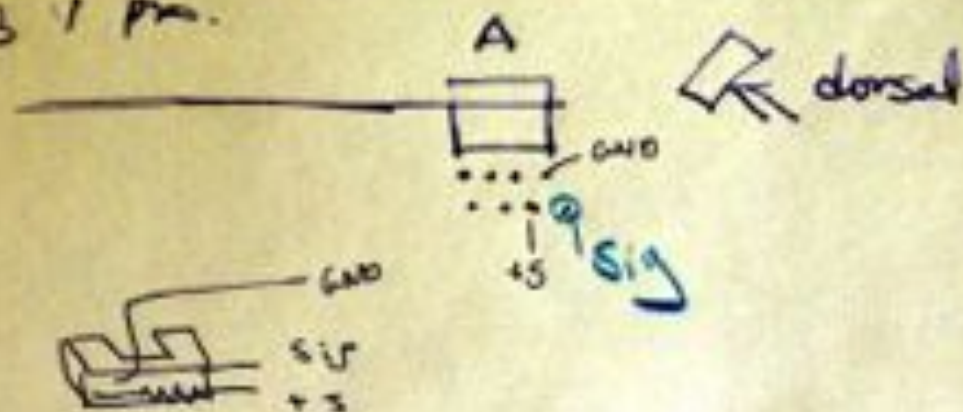


4. 11. 2013

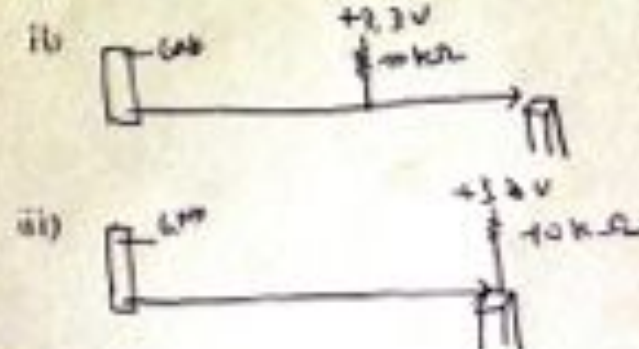
Opto-Tert. April. 13 on 29 pte
 Nachrud SS - pte

Das war programmiert!
 25.1.1

1. Serial input. pte.
2. Serial ~~to~~ ~~from~~ nachher
3. 3.3 V pte.



I/O @ 3.3V
 Low - < 0.4V
 High - > 2.4V



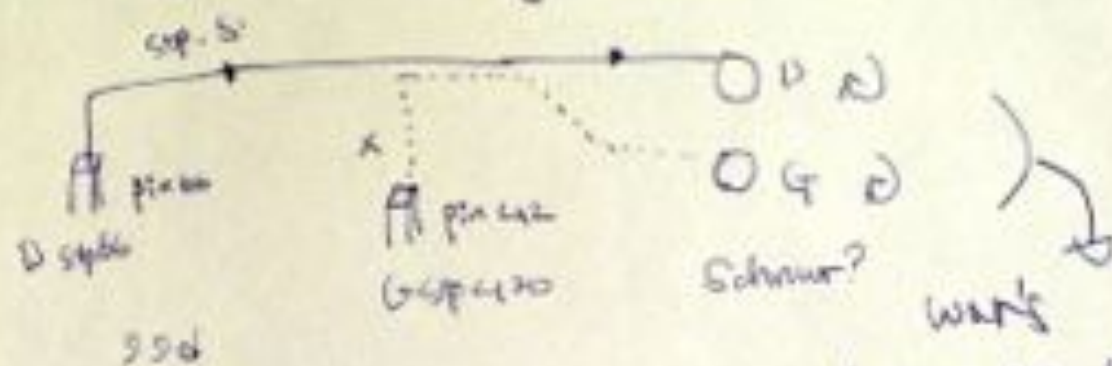
16. April. 2013 0-14

D sep 66

G sep 42

wenn D sep 66
G sep 420

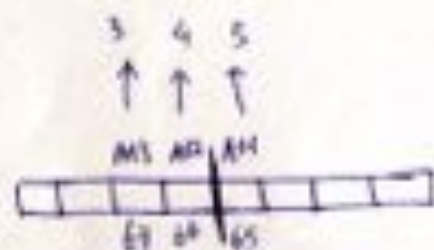
99d → D & G
99g → mix



M1A2 M3 problem

A11 12 13 skan
mit andere pin der 420's

O! schneise



* Anzahl & haken
Warten
Ausschalten

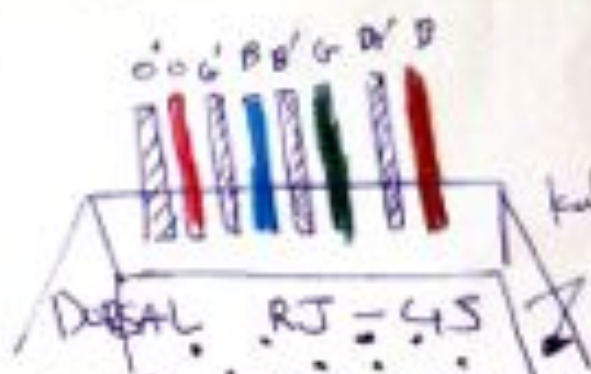
* Durchschauen

- * KABEL VERBINDUNG
- * PROGRAMMIEREN
- * alle zusammen testen
- * TmH - P. checken

* Dokumentation

Warten * such 002 und 2

Max.
220 Stufen



Kuliblation

12. April. 2013 09:02

Debug Tabelle

lateral view

* Bug liste

P: ~~anP. 16~~

1R: R: enR (pu)

alleen:

ANF input



US

EU

H → L

High

0X

Low

7X

haben die 14bit Constant werden

pin (24), 26 (27)

used pin

Sig pin print

Dorsal



K+1



~~Reset~~

Wp3 - ~~cyber~~ 2

sig K = 26 : sig L = 23

sig K = 23 : sig L = 26

JP3 JP4

Alte

Seit



~~St: 29~~

1

St: 29

So: 29

→ fast nicht ktr

24 → 2 → 12 → 11

29 → Wp3 / spalten: 13

sig M (nur 19) → 8

9 → 10

10

155 0105 0136

70 CM

45

四

Wasserfall 5A3 + 4 ; 46 4

$\left. \begin{array}{l} \times A \\ \times B \\ \times C \\ \times D \end{array} \right\} \text{Chaperon} \quad \left. \begin{array}{l} \times 1 \\ \times 2 \end{array} \right\} \text{RTI}$

574044

K

20 45

4. 2. 2. 2.

$$= \frac{49}{174}$$

2 4 8 16 32

3672

SUPPORTING INFORMATION

3x10x5 500EA

SHINMYUNG FASTENERS CO

SUPPORT(M)

3x3Ox5 2000A

신원농부 SHINYUNG FARMERS

$$+ 3 \times 50 \times 5'$$

$< 150 \text{ cm}$

30.04.2013 14

14. April. 2018 0245

- * I₉ ; inner I₁ (mit 3.3V) [OPTO]
- * I₁ funktioniert nicht v.l. Schalter pro. [EN]

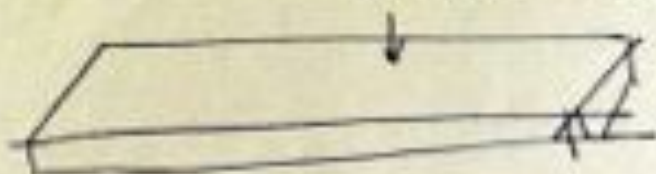
~~I₁ ; opto~~

- * glücken Fixierungen

den Weg $10k\Omega$ muss gehen.

Mit $10k\Omega$ auch geht nicht

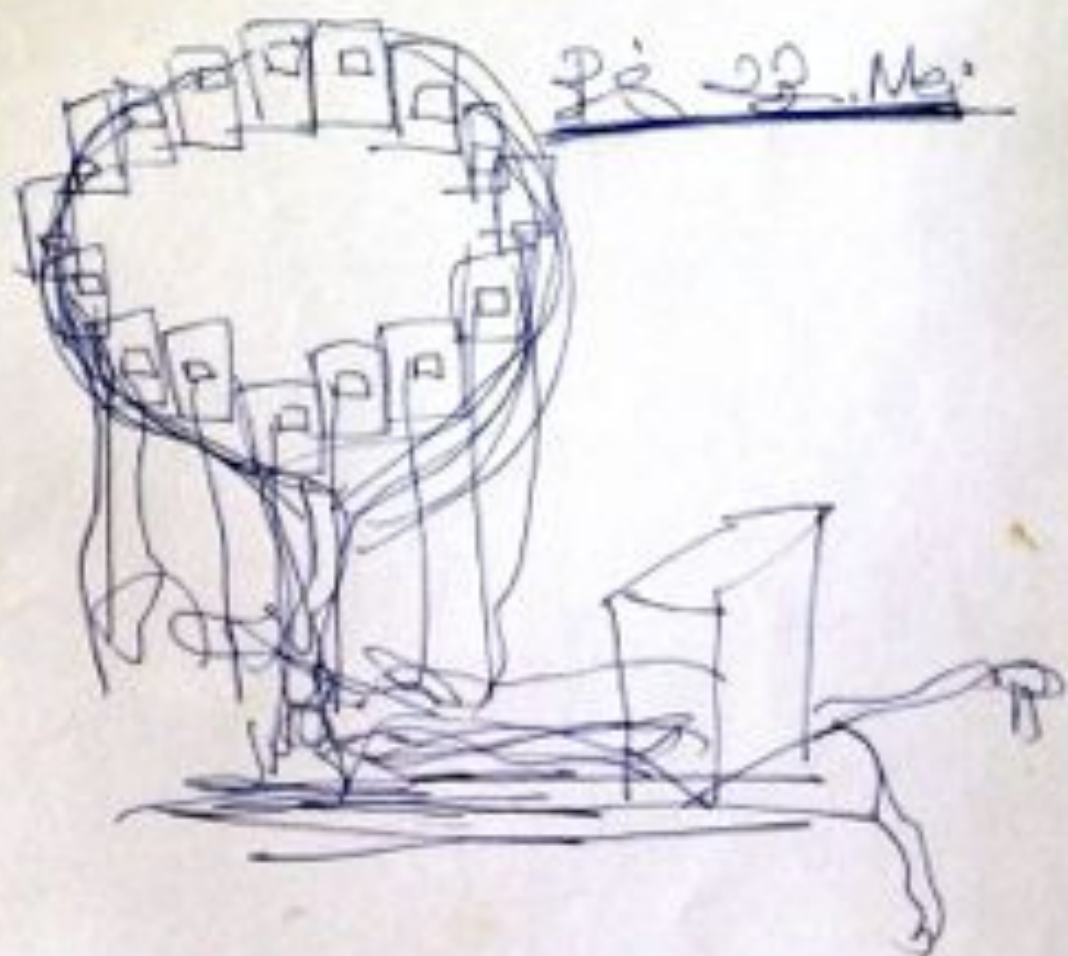
V_a 3.3V aus Strom?



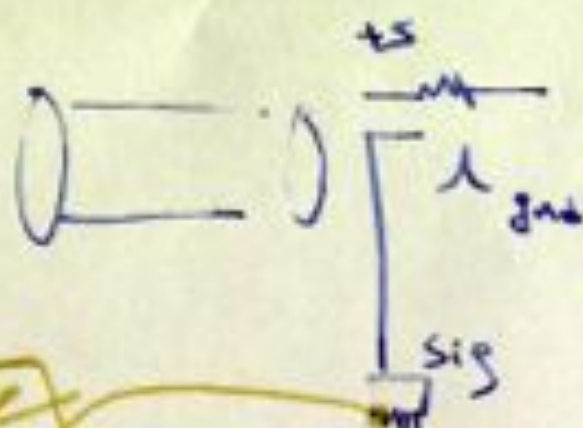
- * power LED & wechselnd

LOGIK PROBLEM

FUNKTIONALITÄT VERGUNG ZERBRUCHTE



22. Mai

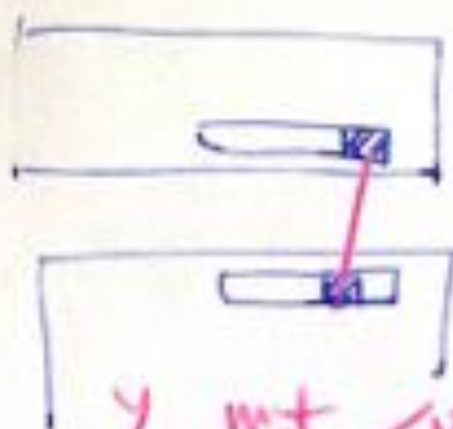


~~MODULAR~~
~~KABEL~~
~~Sig Wiring~~

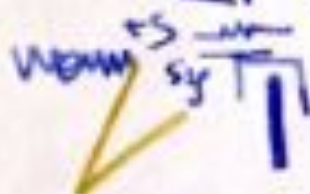


PROGRAM

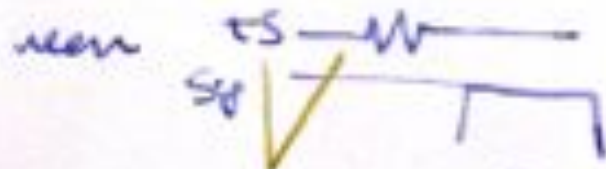
1.



mit 4E befehl

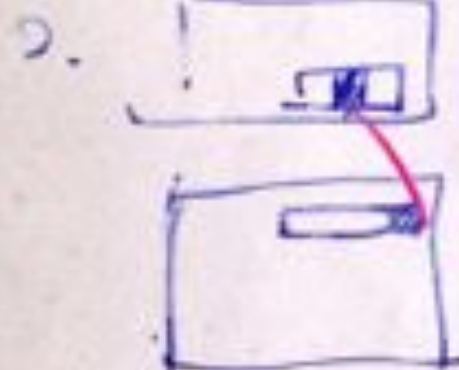


3V



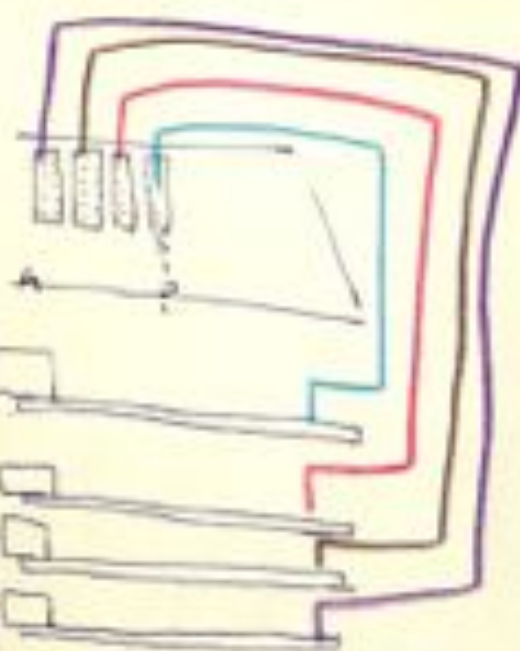
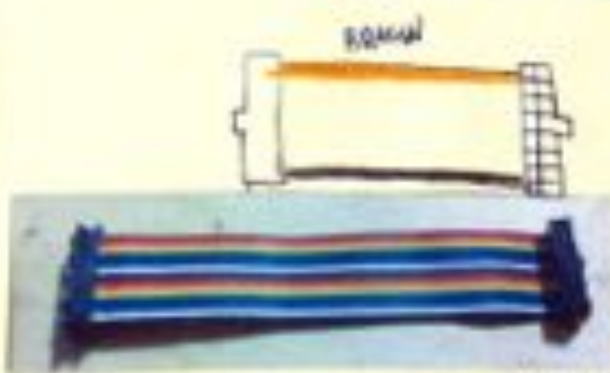
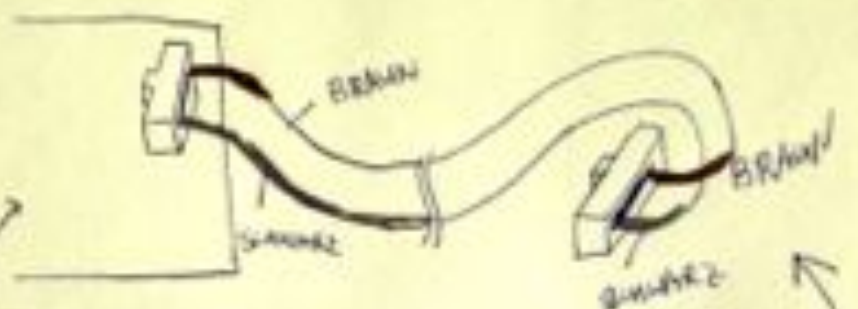
MUS NOV

eben gleich als 3V.



mit 4E befehl

geordnet.



14-13 PMS

41-12

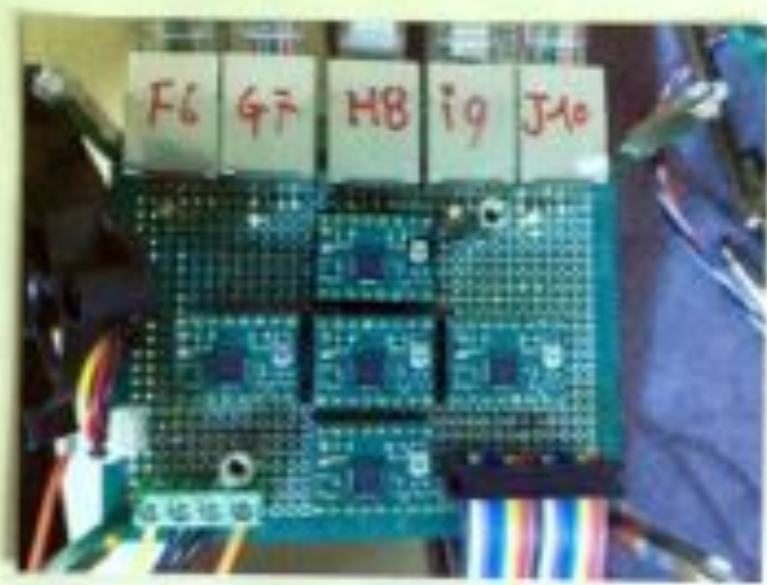
0

to

1

5

11

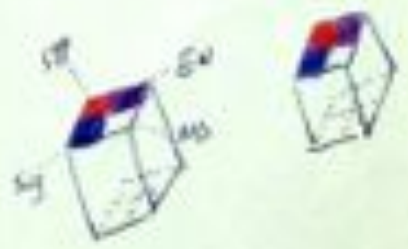


from seller

**RICHTUNG
VORST**

wenn falsche Richtung
nicht Prozess Kaputt!

> Order Teil <



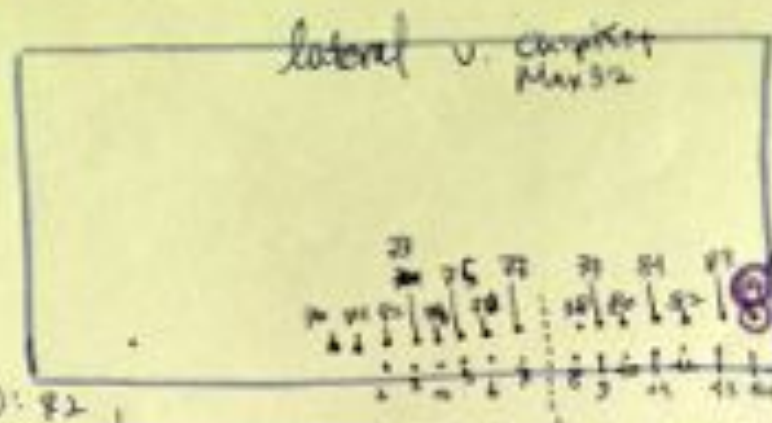
Stepper info

Pololu #1209 Bipolar 200 step/rev. 35x26mm, 2.7V 1A

4988 (#1182) stepper driver

• >> Mechanical Assembly « in MaSTab

16 April 2013 0099

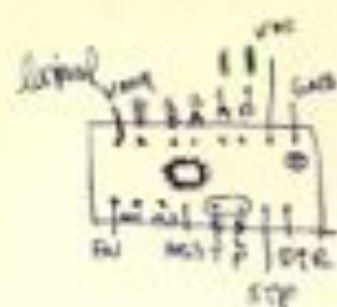


- * Kabel
 - * DR. 100 PCB
 - * PFC 100
 - * Pinout
- on Pin

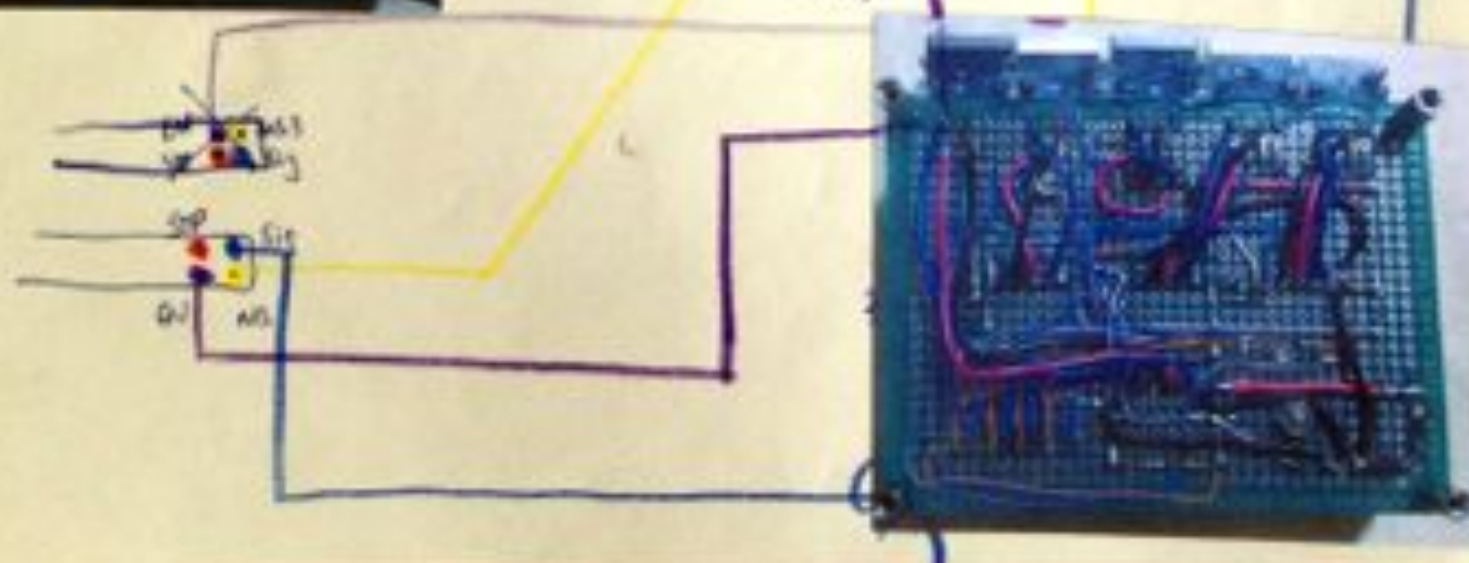
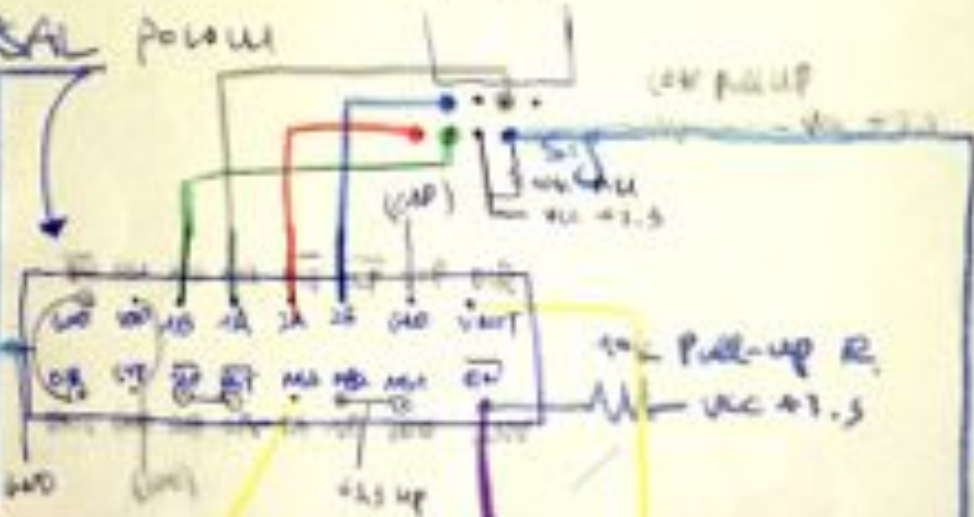
enR (m/ achle kabel auch Thot Nient)

enO: 82
enP: 76
enR: 84
enS: 8

conversion checker. auf PC Drucken PCB

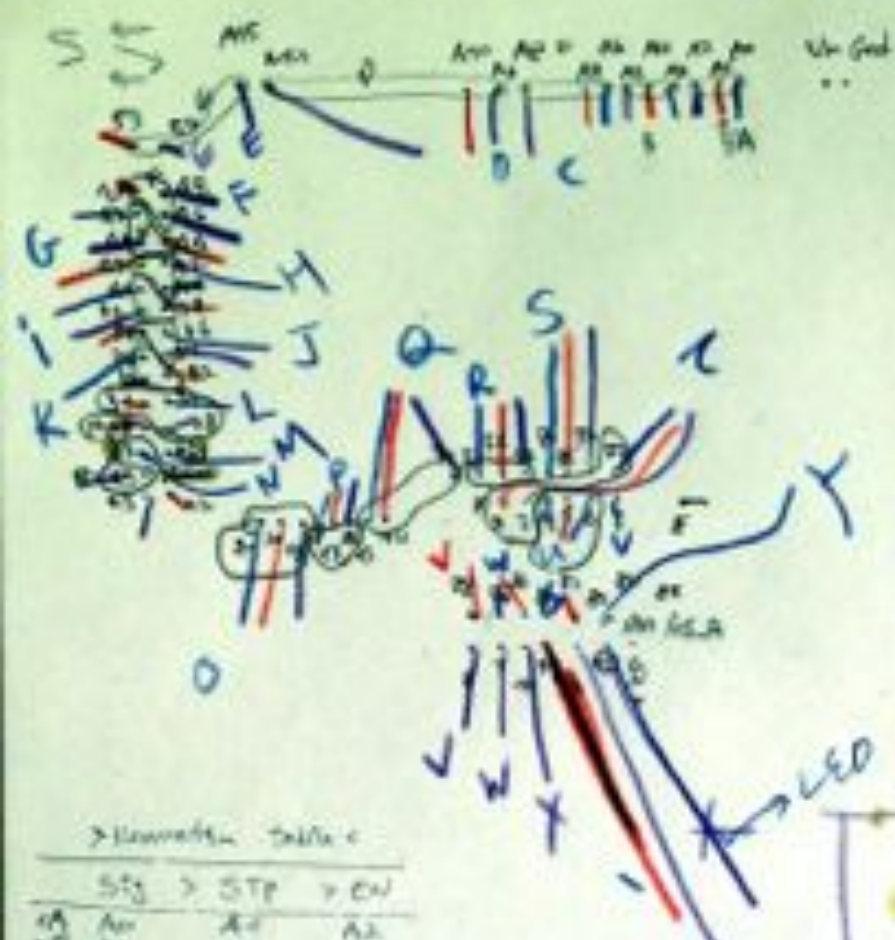


20RAL power



15.4 20 steps in the crystal NMR + 1 factor
 $\rightarrow A_{-MS}$

Seq



A	B	C	D	E
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10

So STP, STE
 (NS)

> Keweenaw Table

	STg	STP	EN
1A	A1	A1	A1
2A	A2	A2	A2
3A	A3	A3	A3
4A	A4	A4	A4
5A	A5	A5	A5
6A	A6	A6	A6
7A	A7	A7	A7
8A	A8	A8	A8
9A	A9	A9	A9
10A	A10	A10	A10
11A	A11	A11	A11
12A	A12	A12	A12
13A	A13	A13	A13
14A	A14	A14	A14
15A	A15	A15	A15
16A	A16	A16	A16
17A	A17	A17	A17
18A	A18	A18	A18
19A	A19	A19	A19
20A	A20	A20	A20
21A	A21	A21	A21
22A	A22	A22	A22
23A	A23	A23	A23
24A	A24	A24	A24
25A	A25	A25	A25
26A	A26	A26	A26
27A	A27	A27	A27
28A	A28	A28	A28
29A	A29	A29	A29
30A	A30	A30	A30
31A	A31	A31	A31
32A	A32	A32	A32
33A	A33	A33	A33
34A	A34	A34	A34
35A	A35	A35	A35
36A	A36	A36	A36
37A	A37	A37	A37
38A	A38	A38	A38
39A	A39	A39	A39
40A	A40	A40	A40
41A	A41	A41	A41
42A	A42	A42	A42
43A	A43	A43	A43
44A	A44	A44	A44
45A	A45	A45	A45
46A	A46	A46	A46
47A	A47	A47	A47
48A	A48	A48	A48
49A	A49	A49	A49
50A	A50	A50	A50
51A	A51	A51	A51
52A	A52	A52	A52
53A	A53	A53	A53
54A	A54	A54	A54
55A	A55	A55	A55
56A	A56	A56	A56
57A	A57	A57	A57
58A	A58	A58	A58
59A	A59	A59	A59
60A	A60	A60	A60
61A	A61	A61	A61
62A	A62	A62	A62
63A	A63	A63	A63
64A	A64	A64	A64
65A	A65	A65	A65
66A	A66	A66	A66
67A	A67	A67	A67
68A	A68	A68	A68
69A	A69	A69	A69
70A	A70	A70	A70
71A	A71	A71	A71
72A	A72	A72	A72
73A	A73	A73	A73
74A	A74	A74	A74
75A	A75	A75	A75
76A	A76	A76	A76
77A	A77	A77	A77
78A	A78	A78	A78
79A	A79	A79	A79
80A	A80	A80	A80
81A	A81	A81	A81
82A	A82	A82	A82
83A	A83	A83	A83
84A	A84	A84	A84
85A	A85	A85	A85
86A	A86	A86	A86
87A	A87	A87	A87
88A	A88	A88	A88
89A	A89	A89	A89
90A	A90	A90	A90
91A	A91	A91	A91
92A	A92	A92	A92
93A	A93	A93	A93
94A	A94	A94	A94
95A	A95	A95	A95
96A	A96	A96	A96
97A	A97	A97	A97
98A	A98	A98	A98
99A	A99	A99	A99
100A	A100	A100	A100

83 12 13
 10
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 82
 83
 84
 85
 86
 87
 88
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 92
 93
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 95
 96
 97
 98
 99
 100

new circuit
 FOTS
 LS

normal on 2.00
 2.5
 0
 2.00
 2.00

8.00 (in 2.00)
 8.00

» Vorgabe pin auf chipset

STP SIG on MS

pin 1

» jumper J1 & J2 in Master
(pin 50 ↔ pin 29)
S1 ↔ pin 43
in Slave
pin 50 ↔ pin 29
S1 ↔ 29
G1 ↔ 43
pin 40, 41

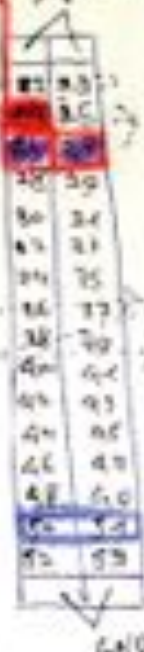
ACTIVE
mit LED, so resistor mit anodes.
2x OUTPUT

in SRL

ACTIVE!

pin 24, 25, 27 versorgt
ne faltet nicht
kann man nur
5V versorgen

WEGNE

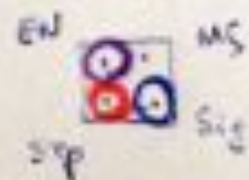


ACTIVE! NA

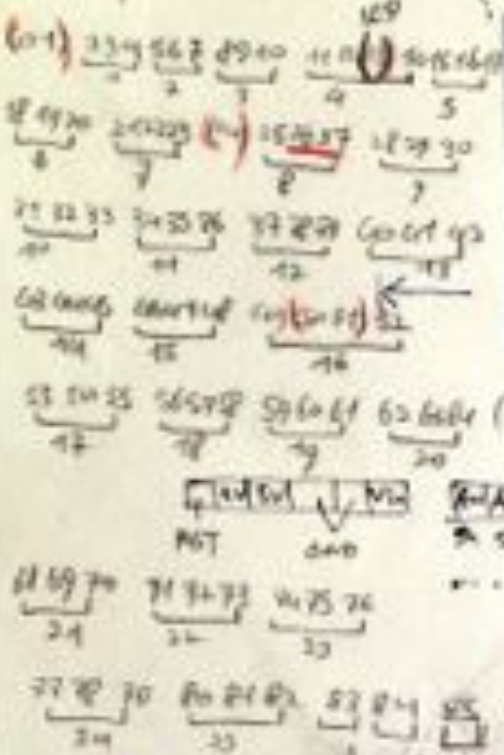


Weg

Act. Debug To Pin



in 179-1 $\frac{17}{4}$



more
various

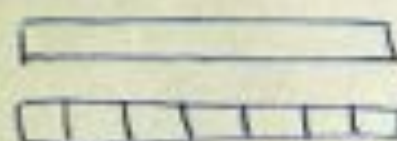
% character

ABCDEFGHIJKLMN O P

↓ /10/14
↓ /10/12
↓ /10/16 autonomous mit Brander

0x13: ABCDEFGHIJKLMN O P

↓
ASCII decimal; 33 34 35 ...
↓ unpack 11 12 13
↓ sandos



printf '/d' "%f (cat %d.tst)"

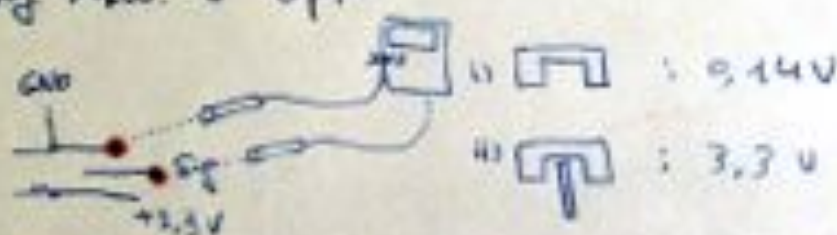
> txt
sed -i 's/\0/g' ~~FA/g~~ .tst
 's/\0/g' .tst

→ BASH ←
char → ASCII decimal
timing?
sandos

path.sh

1. Mai. 2013 0420

* Debug Pin. 'd' opto



does not pin 51 & 43 was reconnected. (SPI settings)
Verken draw, difference of Voltage is
on Signal's Pin angekommen.

physikalische fälschung my Debug toolset problem.

2. Mai. 2013. 0544

/osc Tabelle

* INPUT. KONTROL POSITION : FBR

/led/1 /led/2 /led/3 /led/4

/led/20

*

/mod

explorative system

1/1/1 RND
12/1 →
13/1 ←
14/1 MAN

*

/int 1/1

Table - mini?

1/1/1 FBR
12/1 SRL
13/1 STM
14/1 1/16
15/1 A-5

second last but 3rd 1/1 f 1/2
1

*

/mil

Table - mini?

1/1/1

*

/pos

INPUT. KONTROL POSITION

2nd STP/REV.

1/16

3200 STP/REV.

1/100

32 STP/3.6"

*

/key

1/17 : 1 (absolute stepper position?)

1/18 : 2

①

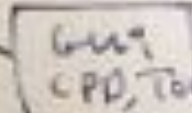
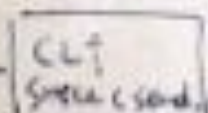
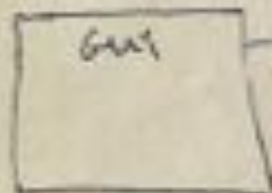
Sequence

seq. STP No → FB → geht?

H

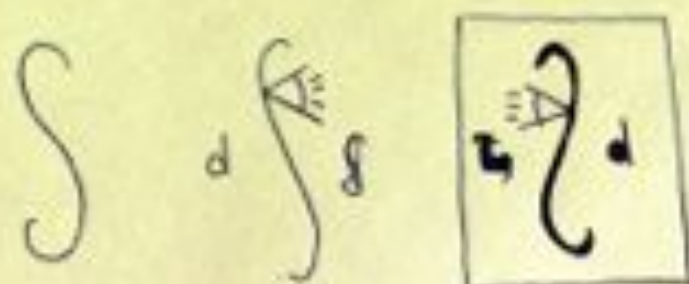
act. block →

UDP



sequence

R-Time



6. März 1973 11.38

Wäre "Take My Hand", die das Leben, die Situationen in damalige
Deutschland mich daran erinnern

DANKE, das danke ich über jetzt. 2/3, 17/1!
wollte ein Kate, das Kate fliegen lassen. Das wird
von rührende Sache, danke ich.
Heute soll ich auch nochmal deine
Optionen wählen.

Dein Weg
dein Weg?

Dein W
D. W. ist m.o. L.

2105
ABCDEFGHIJKLMN O P Q R S T U

V W X Y Z (X26)

' 1 2 3 4 5 6 7 8 9 0 - = (X13)

~ ! @ # \$ % ^ & * () _ + (X13)

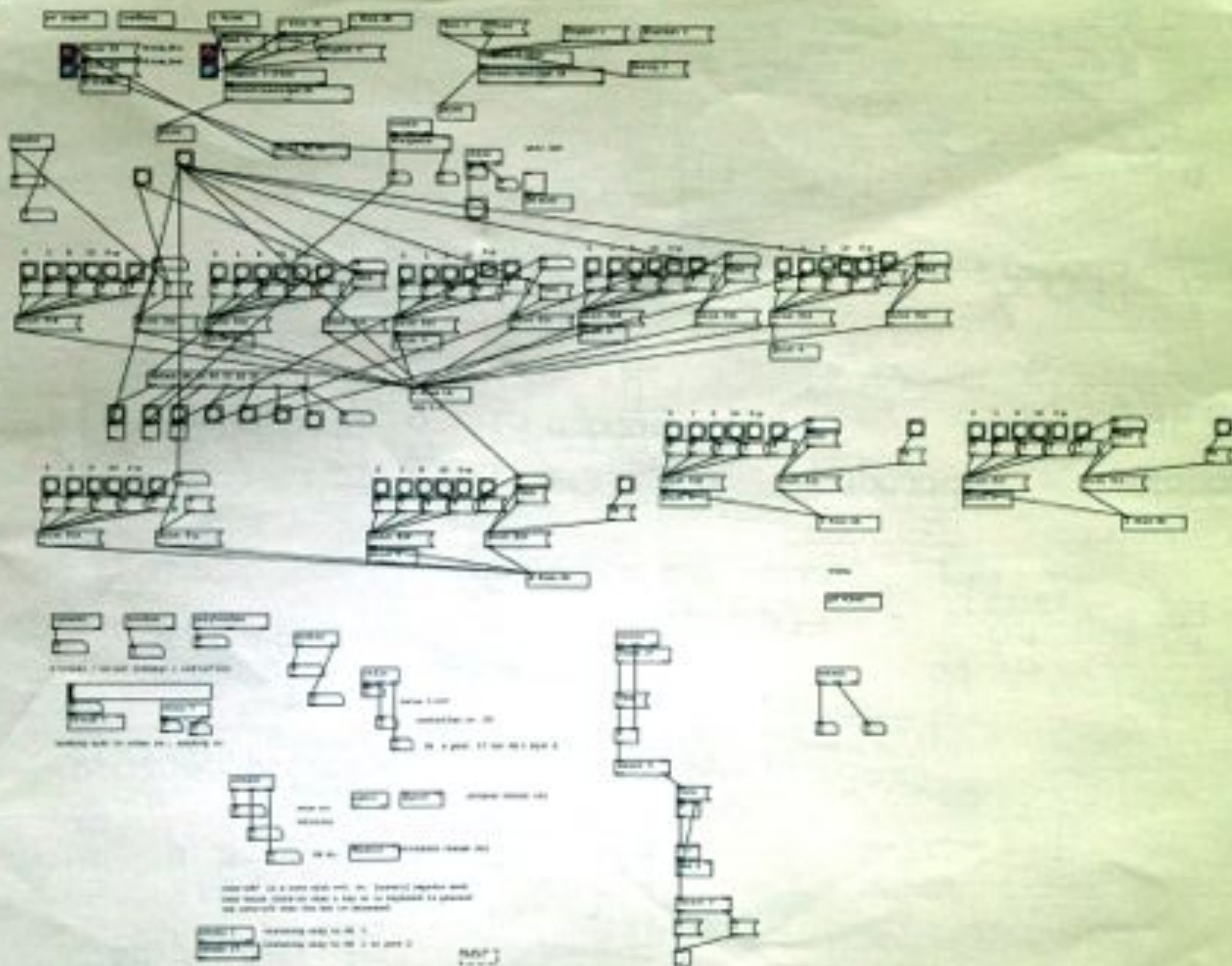
: ; , / (X5)

: " ' ? (X5)

VINCA STENCIL

SUM=(X162)

STARTX



WELCH ~~MASSE~~ MUTT,
KANN ICH DIESE MASCHINE AUFBAUEN

WEG od. zu null (2)

KANN ICH MICH AUS ICH. BENENNEN.

DAS POTENTIEL NULL od. ETWS.



ok. aber muss „ich“ sagen. ich akzeptiere die
plattform auf. k. Aber da ich so paul y
so wie creep. - will nicht arbeiten.

War sagt wegen mich?

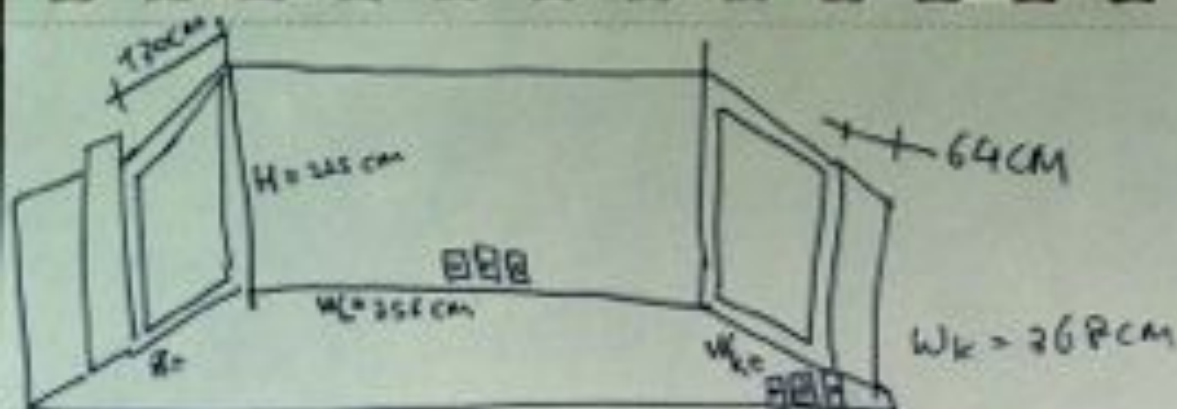
ich kann nicht independent.

im vergleich mit

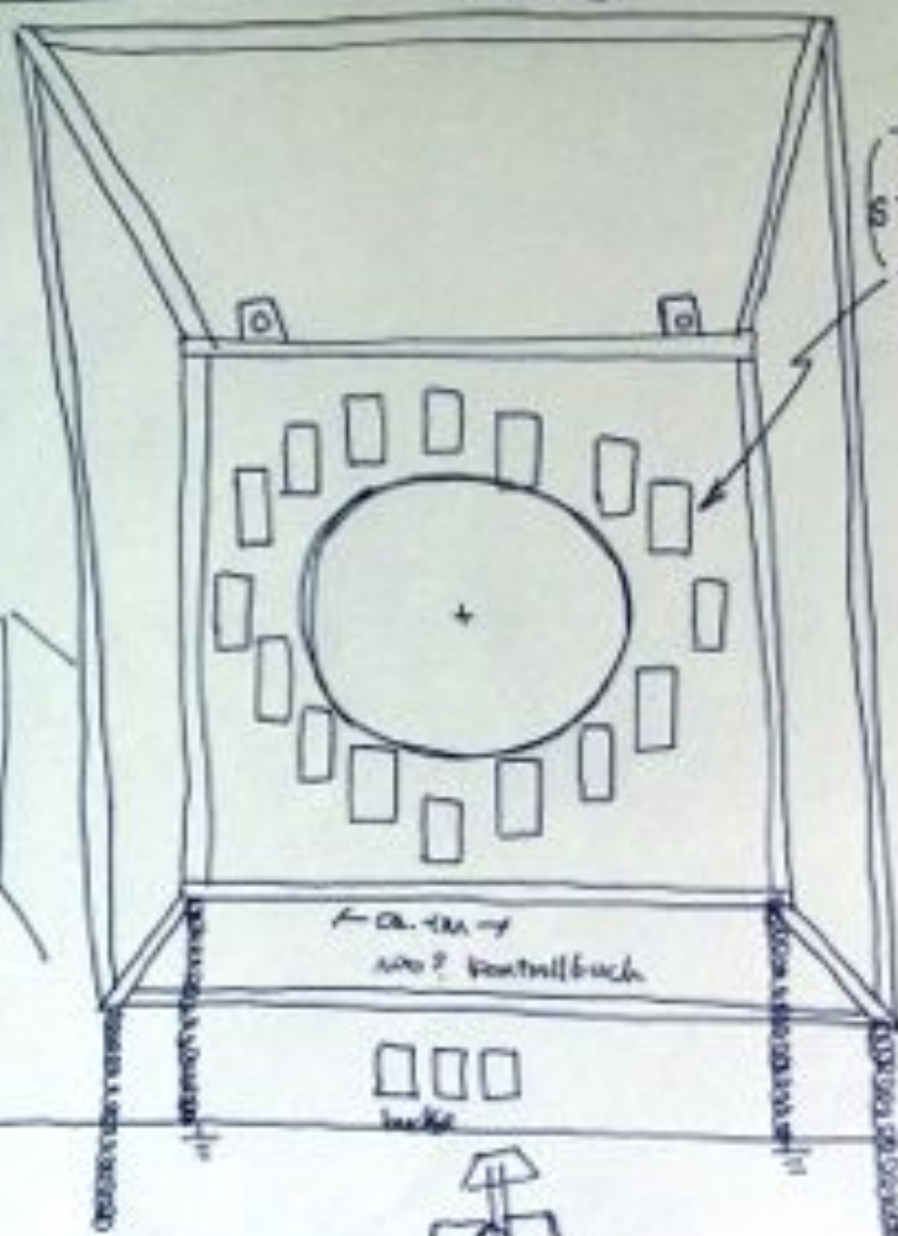
ore, wer sagt wegen mich?

ich sage wegen mich!

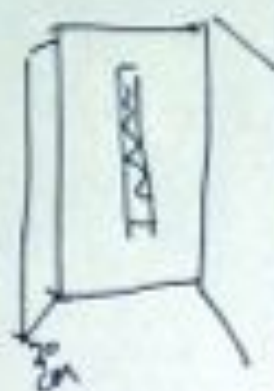
o! o! o! diese „ich“



$$\begin{array}{r} 143 \\ 223 \\ \hline 368 \end{array}$$



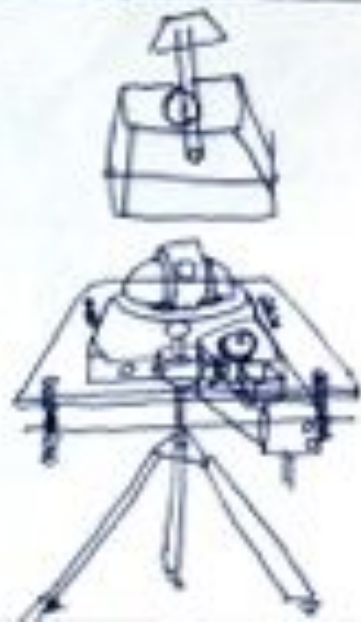
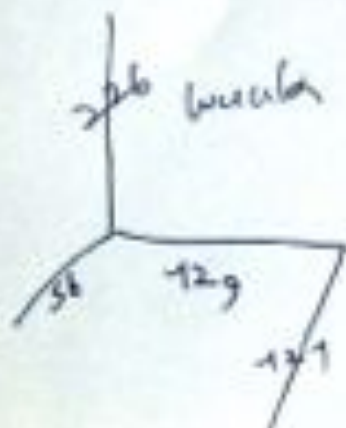
- * Mount
- * U.S.C.A
- * STRUCTURE
- * Average Karte
- * Skript 2
- * Lampe
- * Intern



→ ca. 1m →
was? Kontrollbuch



~~notwendig?~~



parsedata TCP/UDP?



[illegible]

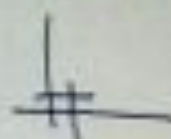
* VISKA KAPUTT STRU? & WPS?

00611 2. Aug. 2012

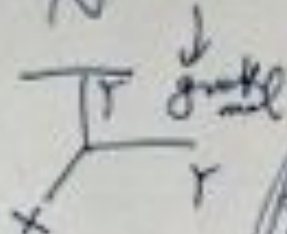
Schrauben auf'm Tisch so veranorden.



Abstand = k die Rad angekommen.



90° ist problematisch
deshalb 20° ist
eine Anfang
in neue Welt.



0.2.2

9 10 11 12 1 2 3

17 120 = 1410

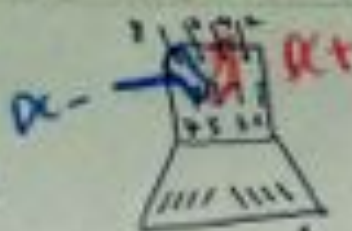


Morgen probiere ich
die 20x20 Profile
für 90°?

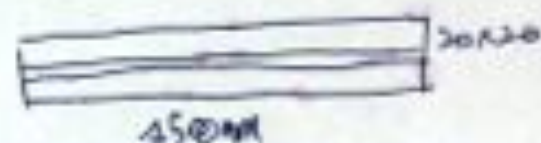
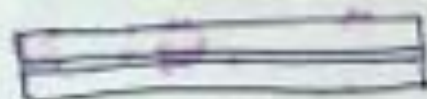
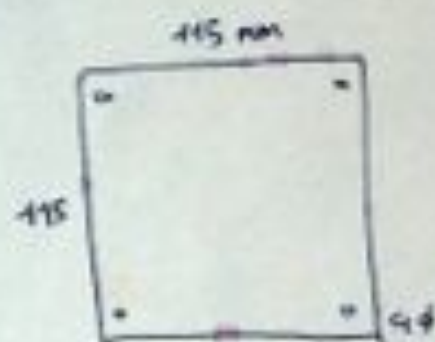
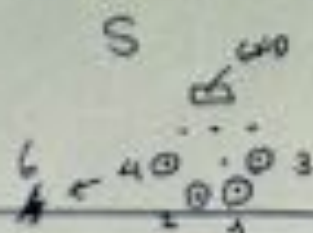


* 3. Aug. 13
 national VISCA RE
 die problem was aus
STRM.

* change STRW
 * indep. system



PoE
 + 6bit AC &
 Bi-Data Modul 8.



es GUP
 BL/NG-

7.4 4PV
 36 204
 18 12
 ② ①
 6.5 3

0046 12. Aug. 2013

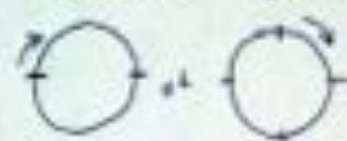


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4

wie Uhr Ohren Uhren

05.30 13. Aug. 13

Nachmal nachdenken
Schwächen d. psychischen Verbindung
müssen brachieren von dem neuen System.



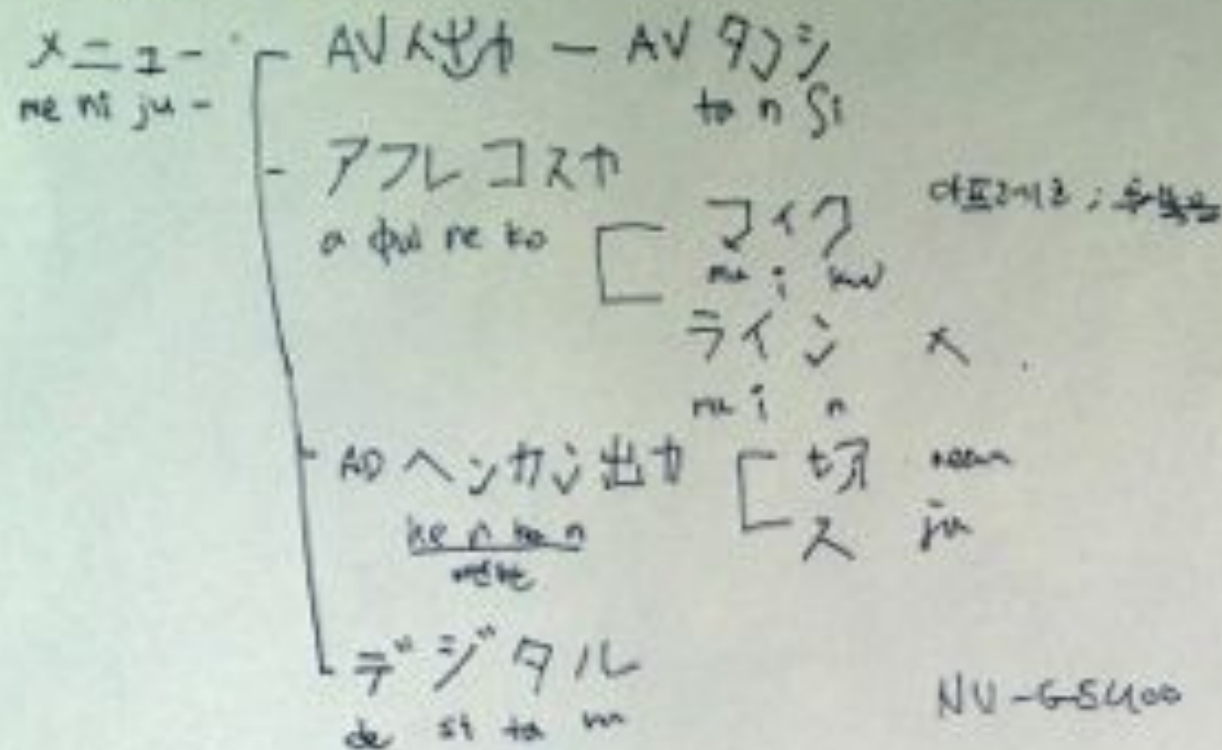
Soll ich machen

y. Skript

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8

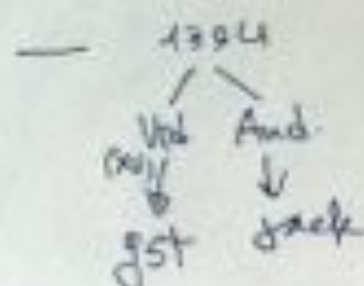
Starty. mooo. com

23. Aug. 1990



24. Aug. 1990

Video [XV
PIX
GEN



glimagrock m/ DV; slow
Dgst → PIX ; dropout
so gst wieg, dann PIX
GEN

Audio



V-stage.sh : 5931
5931
ygl 1. : 5931 TurboVNC
ygl 2. : 5932 TurboVNC.

(Master)

Out A1 :) Master Out → Master

Out 2 : Line Port → Kom input

112.168.5.12 startx.lad. startxmac.com:4200 WebSSH



in Gentoo. wake-up-gentoo.sh



ssh gentoo.

dra ↓

vgl1.sh

vgl2.sh

→ theatre stage

→ kontrolraum

down, vltrol DPMS off w/ sudo



VNC-pi startx mac.com : 5910

VNC-stage

: 5931

VNC-K.Raum

: 5902



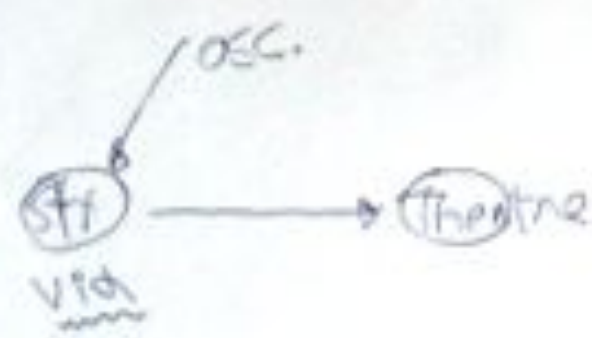
~/ro.sh

pd theatre.pd

Zusamm?

* 7000 wsd part gefixt worden muss

450k 1500



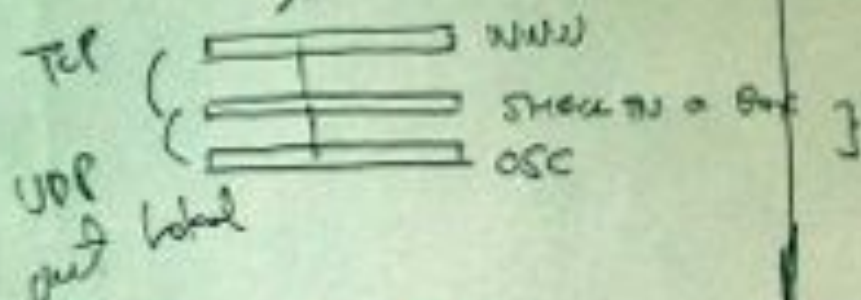
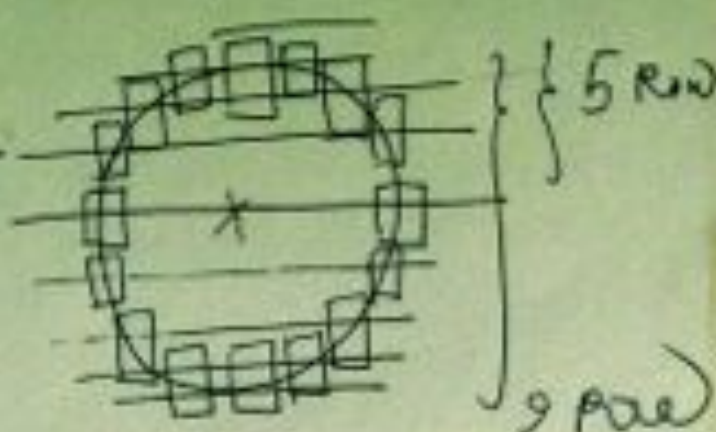
0017 13. Sep. Fri. 2013

Infra. gate to

- * Nurses : keyboard.
- * gui
- * CLI ad.

OSdump

MORSE?



Open Frage ?

DUMP

SEND

Was?

OSdump 127.0.0.1 3000 /nets i 1

W

if vscn konstanten
- or konst - werden

0102 13. Frei. Sep. 2013

Was wollte ich machen?

Was wollte ich. ~~ist~~ α am wichtigsten.

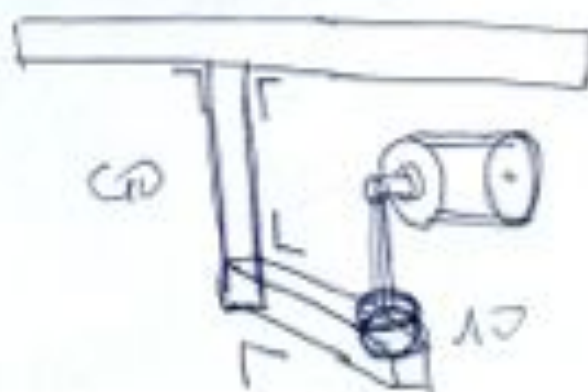
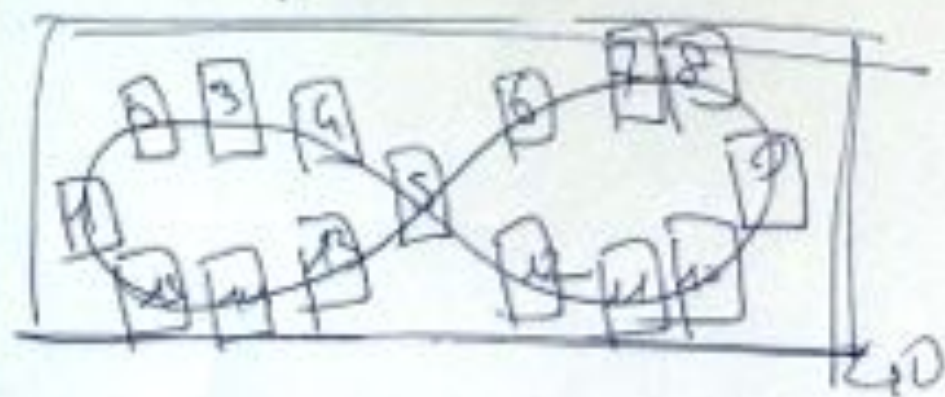
Darüber ~~hat~~ ~~versuche~~ ich nicht

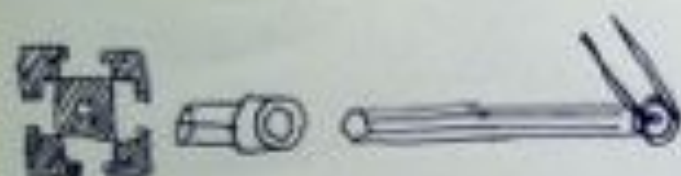
... habe ich ... sagen, weil schon ~~ist~~ α ~~sagen~~.

Das Resultat ist im Video:
Theatre Refondierung.



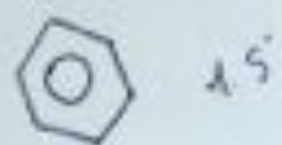
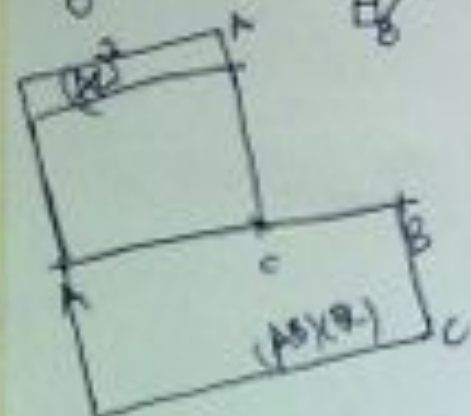
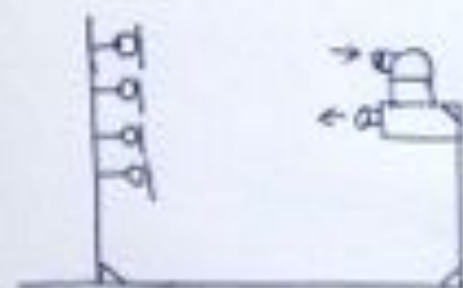
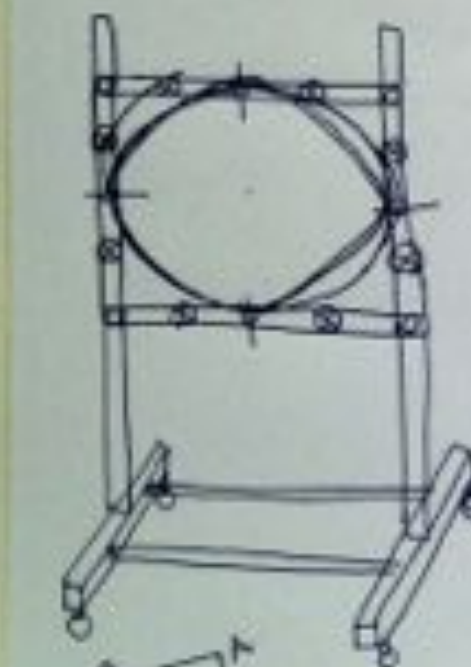
flu





heath-robinson
Zeng-Gilliam

22.16 16.5.1971
20.13

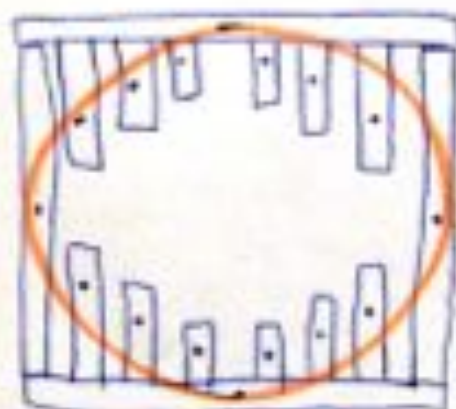
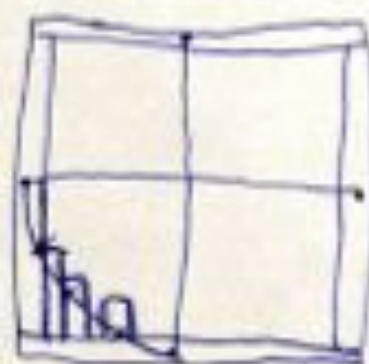
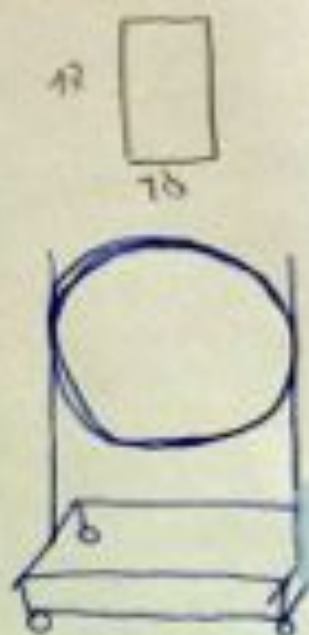
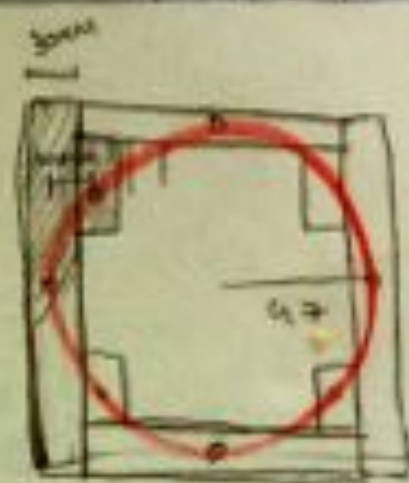
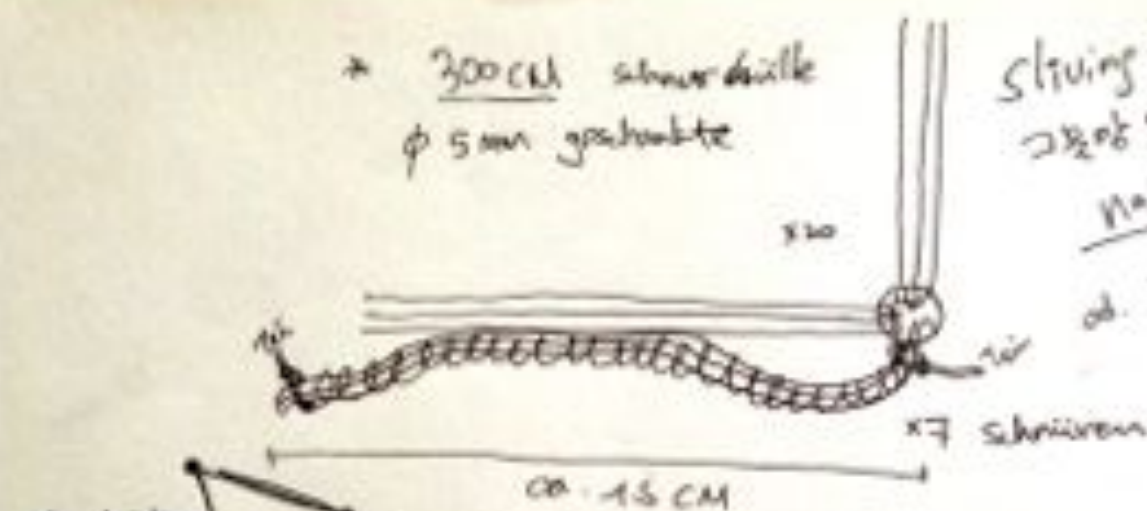


* Konstruktion, Konstrukt
* Fixierung

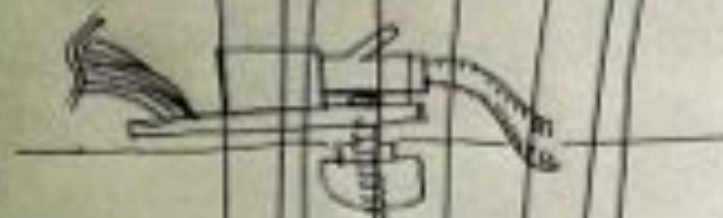
영수증 (계좌입금지위)		권리	
사 업 지 명 적 번 호	104-05-57800	성 명	이영희
성 명	서울일미초	성 명	이영희
사 업 장 소 재 지	서울시 강남구 삼성동 55-1 일미초	연 락 처	☎2267-5566 7157
영 수 내 용	도·소매	영 수 내 용	일 미 초
적 성 연 월 일	2008. 9. 16.	금 과 대 가 총 액	₩ 13,000
₩ 13,000 (영수증구입)			
품 명	수 량	단 가	금 과 대 가 총 액
SP 2030	1/2		11,000
CCP 2030	4		2,000
QVR-L(20)	P		

* 300cm schwarzelle
φ 5mm geschwarte

sliving cable
그물망 등으로
Natorec.com
od. Schenk-Tube



so da es. / so in es. so
Wie du willst.



Dieses keine Problem dann.

Die Gott hat
mir ein Gift gegeben,
~~POUR HAUT NON~~

Sauah/ benutze ich es



Poetry

you are not
a poet?

Not a poet
2002





braucht nicht mit / durch OH an der, alphabet
etwas es kribeln. so ist es kulturell.

23.11.13 Son 13. Okt
-eb

Er drehbar?

2.10.13 drehbar?

Er 3.10.13 drehbar?

2.10.13 drehbar?

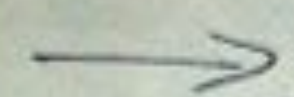
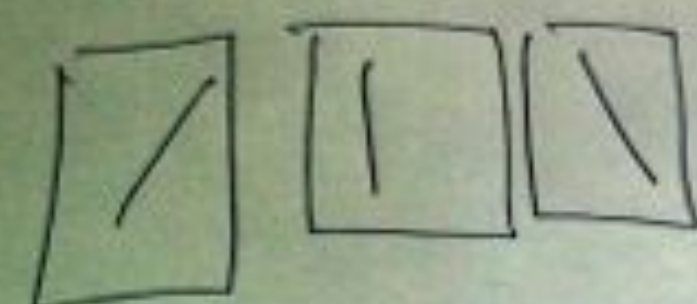
2.10.13 drehbar?

fascinating



y CH based

mehr physikalische



Viel mehr habe ich schon
Verlore aber
meine Wege
habe ich das Wort "tdzm"

-다. 판독했다.

Mon 14 Oct 2013 2055

"~~START~~"; 747 외가 왜냐고?!!
747 왜냐고?!!

DEATH (DIED)
 $\int [jetzt] dt$
BORN (GEBOREN)

~~THEATRE~~

NULL GESICHTER.

SHELL IN A BOX

747야 왜냐고?

747야 왜냐고? 747야 왜냐고?

(왜?) 747야 왜냐고?

747야 왜냐고? ARTIFACTY 왜냐고?

747야 왜냐고?

747야 왜냐고? 747야 왜냐고? 747야 왜냐고?

747야 왜냐고?

QUE STÄNDIG

WOPES

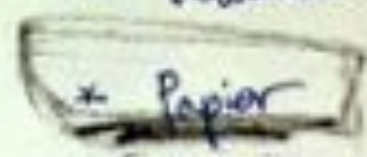
2000

3000

22. OK. 13

0048

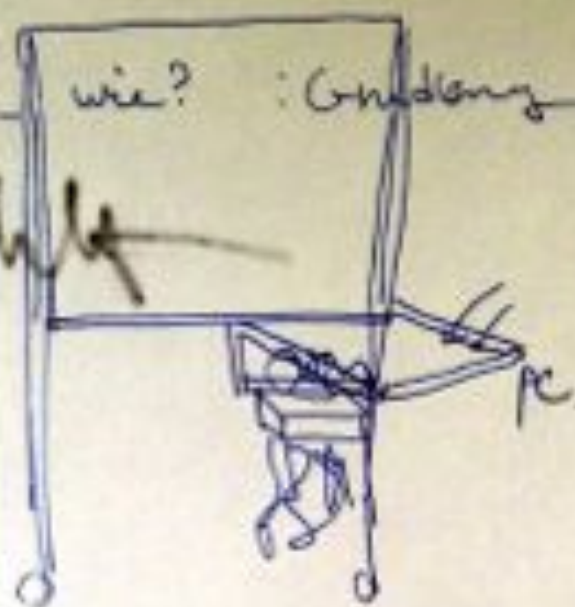
* Gewürze : farben wie? : Grundung



* Klebeband

* Styrofoam

geruch



„Wie wollte ich?“

5. 22 oder 23

5. 22 oder 23

2. 22 oder 23

de jure

26. Sam. 2013. ok.

21.02

2311 26.2013

So, So, So, So

$$\begin{array}{r} 164 \\ 2 \overline{) 328} \\ \underline{328} \\ 0 \end{array}$$

$$\begin{array}{r} 138 \\ 676 \end{array}$$

ich ist?
w
Sch
mehr er.

147
394

am. ~~kennt~~ freud

mit zu mir.

Oh, oh, oh, oh, oh.

ES GIBT EIGENTLICH
KEIN WEG.

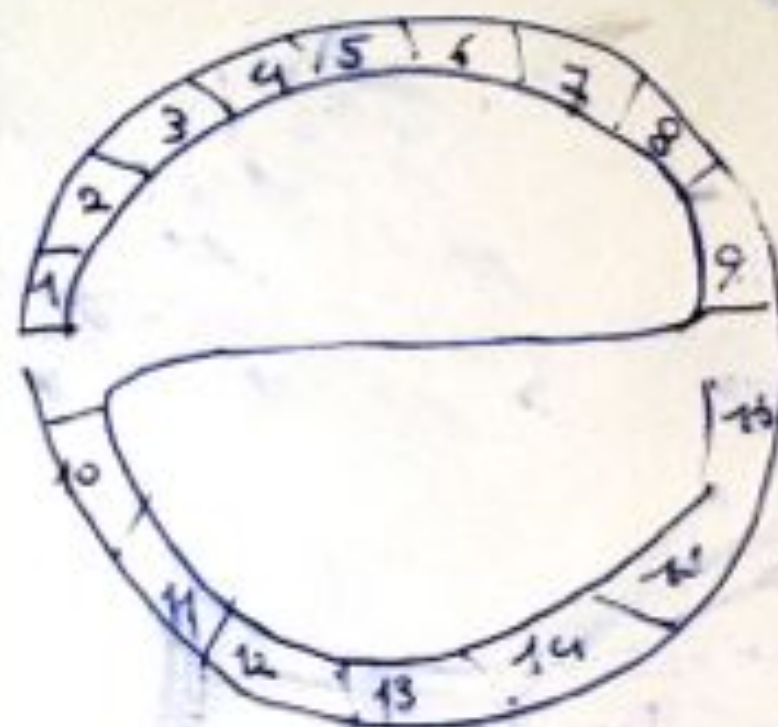
Nitrate-Transfer ist No
path.

so bzw. hab ich durch diese Arbeit / Werk 2228 9.1.10...
 gearbeitet. Warum denke ich, dann denke ich vielleicht
 schon siehe unser Zweck sonstige gearbeitet.
 keine Richtung. od. "Was wollte ich" Die Frage.
 ich hab "Design" gemacht. aber ich hab design
 gemacht.

eigentlich
 symbol hin zu
 hab ich eine
 Kunst ist.

Kunst ist so
 das was
 die Kunst
 nicht ist
 in "Bewegung"
 ein Kind war

die Bewegende
 un.



wollte ich
 diese Frage
 fragen.

gemacht, so die
 Frage ist ob
 May nicht
 Kunst.

Kann man
 sagen, dass
 sich als ich
 machte ich

Sage. Bewegung, Motion, Moti-



TRAGIENOLOGIE

allen trotzdem, reiten, trotzdem
 Sie? warum? so ist solange.

82 MM



112 MM

> Specimen <



2014
15 25 35 45 55 65

1A A
2B B
3C C
4D C

5
6
7
8
9
10

16



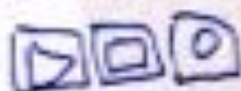
45



25



Viewer



Do it WITHOUT MERS

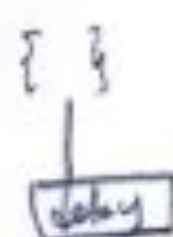
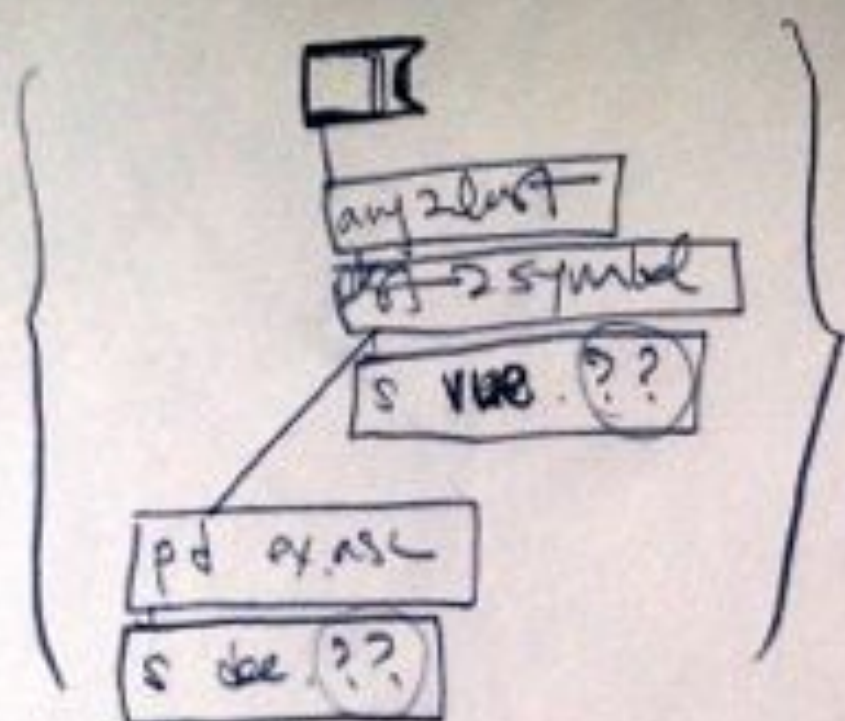
INDEPENDANT

ASSAULT

ASSAULT

□ □ □ □ □

H A L L O

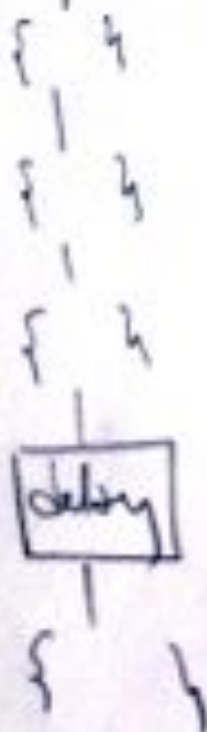


~~GARYE~~ MANARLE
CALIBRATION

WAS über was
ist kein WAS.

ERSTMAL
ERSTENS

ORIGINAL
FROM due
below



COPYRIGHT VERLETZUNG INKLUSIV.

START]X[
[X]

[FÜR
FOR
FOR] M
M
M
M

HUH
H
H H H

NOTT SPONSERED BY H & M

DANKENUNOT BEENDET.

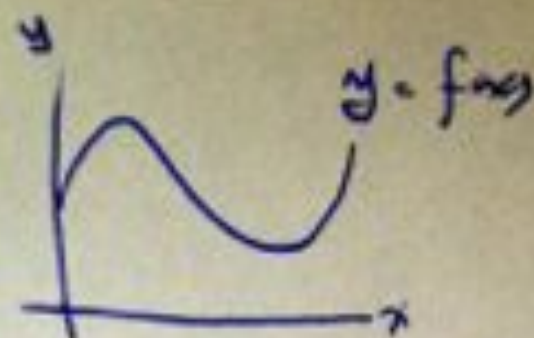
>>> INTERMISSION <<<<

KAPITEL 1;
ACT

DAS "M"

DARÜBER.

START(X)
 $y = f(x)$

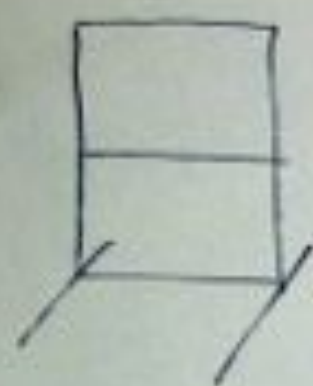


\$ S -
 \$ ST -
 \$ STA -
 \$ START -
 \$ START -
 \$ STARTX - ←

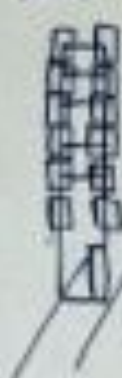
BLANK

START.X
 STARTX
 OK GO
 OK COMPUTER
 OK X
 START OK
 OK START

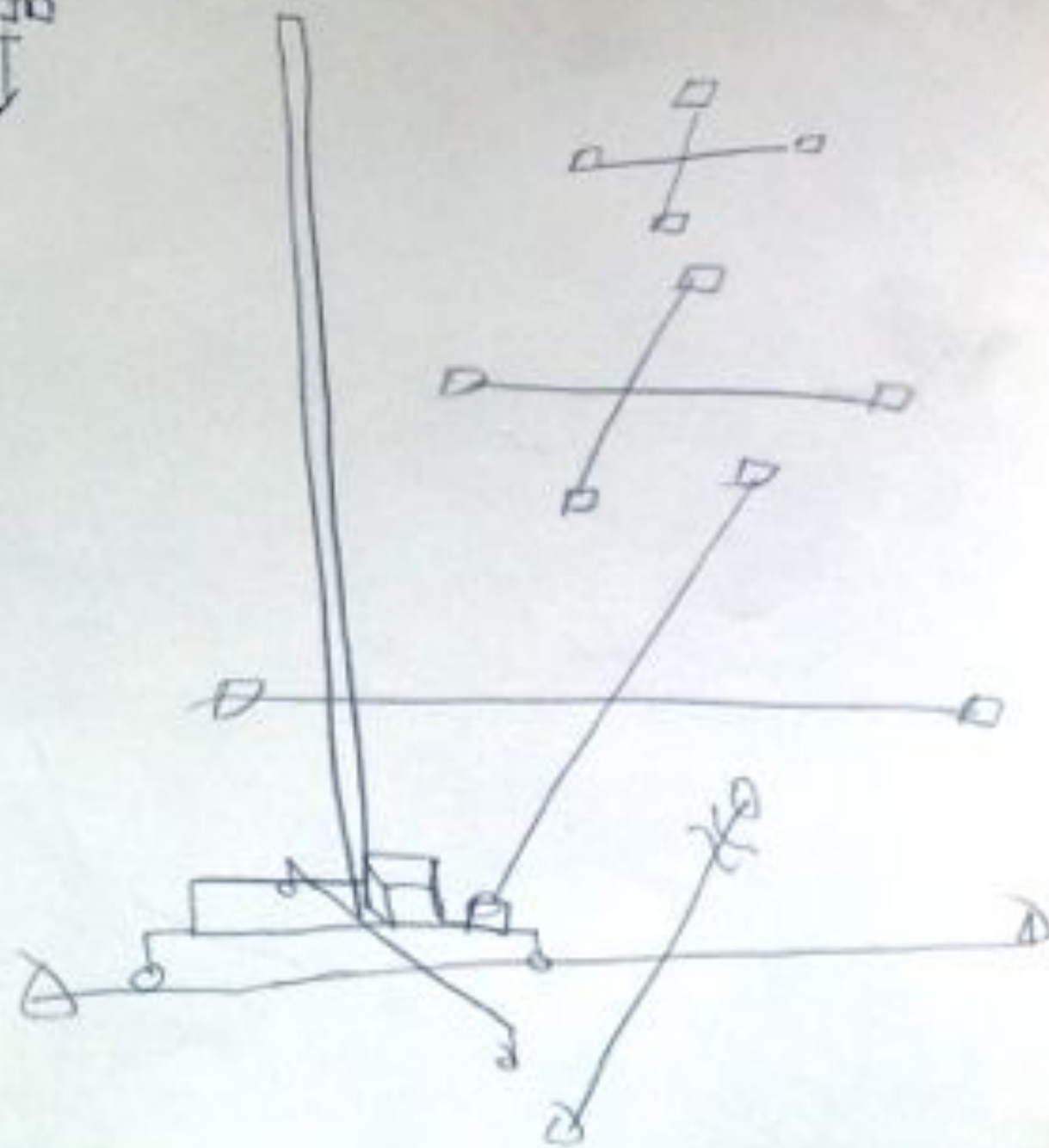
OK START
 OK START
 OI STARTX
 OI ST_ARTX
 OI ST_ART-X
 O-ST-ART-X



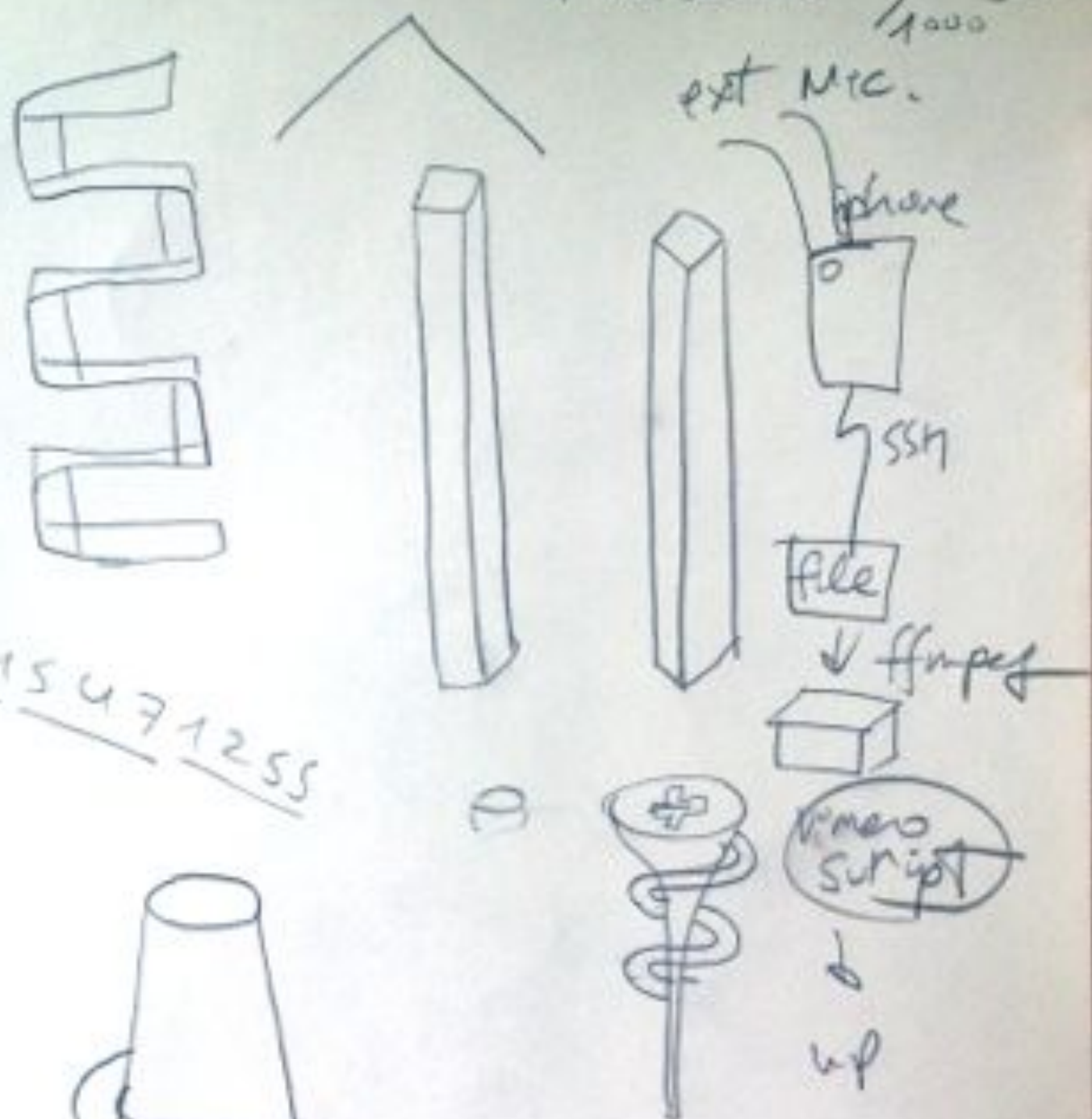
1x8



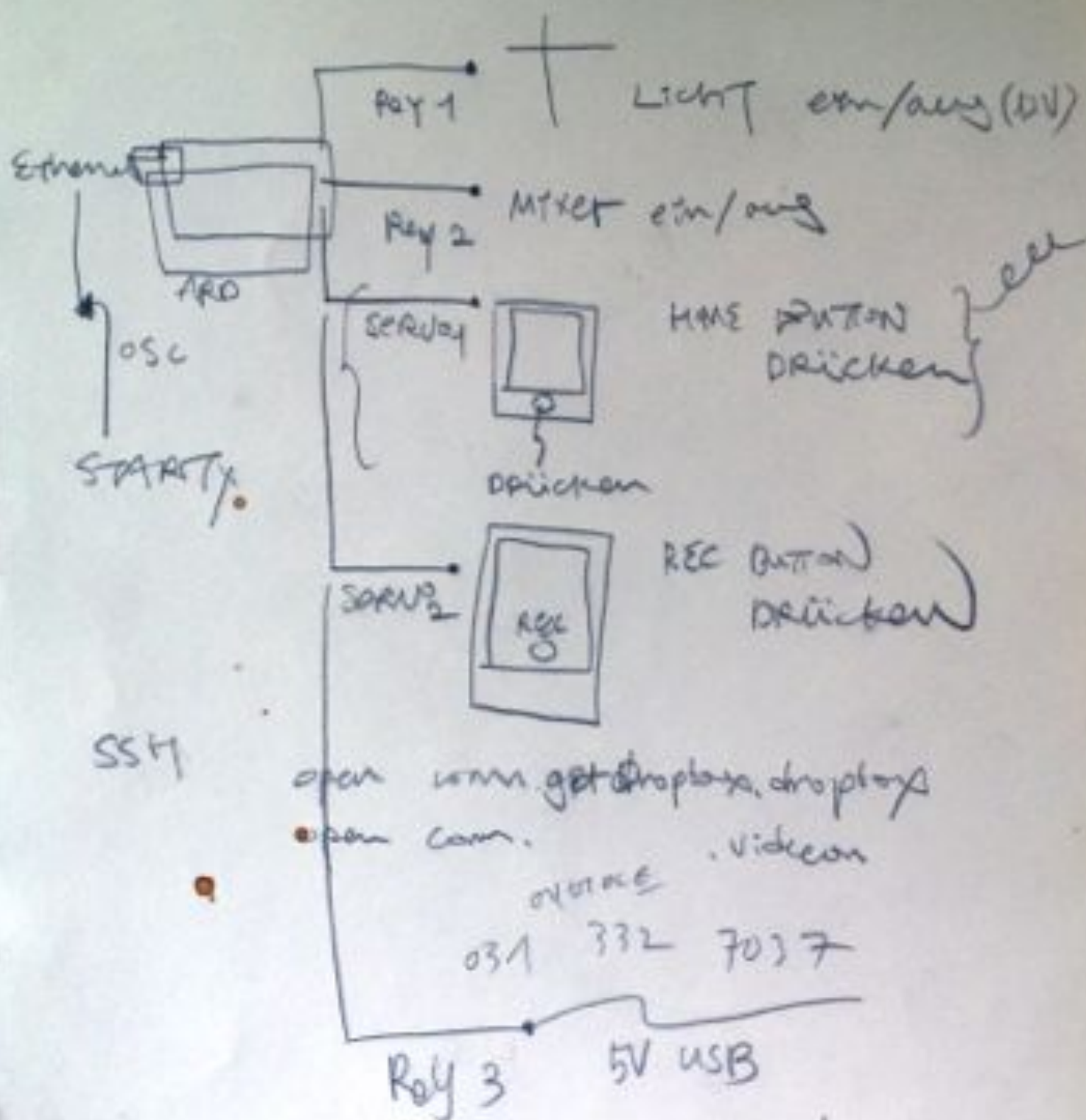
8x2



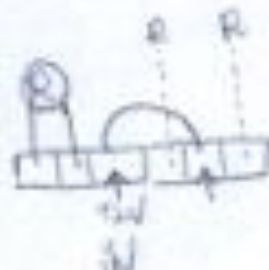
1 miliseconds = $\frac{1}{1000}$ sec



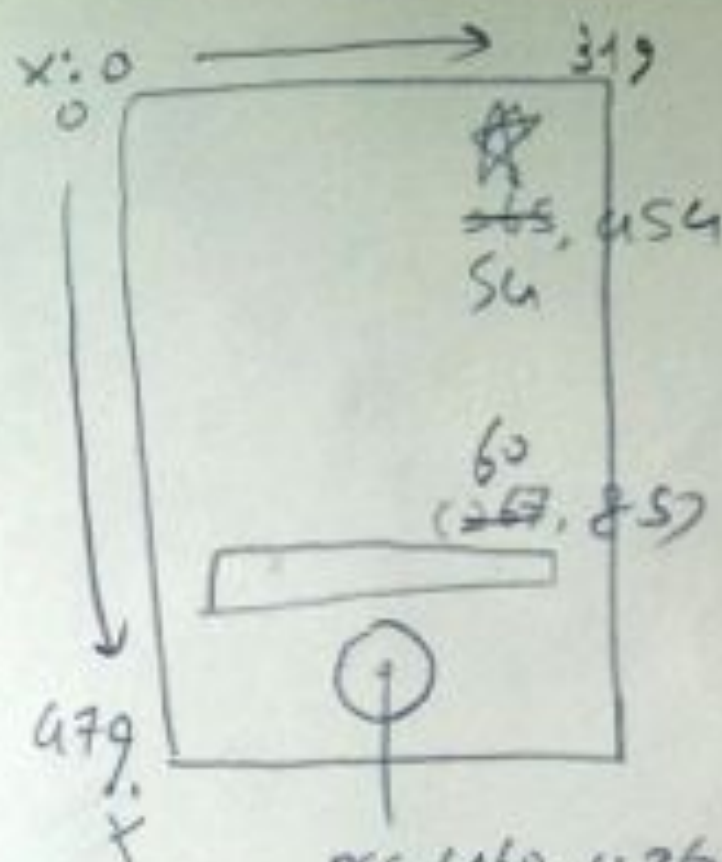
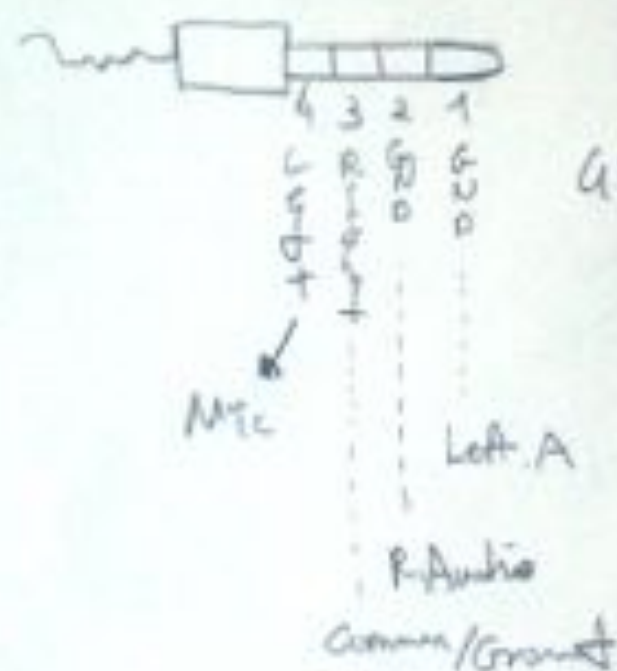
0315471255



GRÜN
 GRÜN
 IN SU

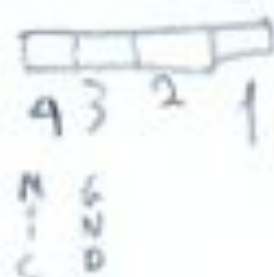


Green 1st / L
 Red 2nd / R
 R/G
 White 4th / Mic



REC (160, 436)
~~123, 25, 529~~
~~82, 85, 72~~

640 x 960
 320 x 480



(Yellow Weis Pot Left Right)

760, 426

50 425

272 425



031
283 9936
74018

WAN

>mut<

Submit genet's

netis

192.168.1.1



192.168.1.15

Submit.

192.168.1.23
(75)

>zeit<

192.168.5.1

torrent	9091
amx	31415 31416
Shellinlay	4200
BitCyr	8888
ssh	22

usc	9999
VNC	59
veemay	
Gsh	1321-1322

1	1	2	9
2	3	4	10
3	5	6	11
4	7	8	12
5	9	10	13
6	11	12	14
7	13	14	15
8	15	16	16