

CTF3 BUNCHER STATUS

L. Thorndahl

Construction of travelling wave buncher

G. Carron, A. Millich & L. Thorndahl

83 Ω circuit, trav. wave for $\beta_{av} = 0.76$

35 MW

5 MV/m

$\tau_{fill} \sim 5 \mu s$

Feng

$R/Q = 13 \Omega$ / cell
circuit

$R/Q = 17 \Omega$ all
circuit

$\beta = 0.71$

$\beta = 0.81$

145.97

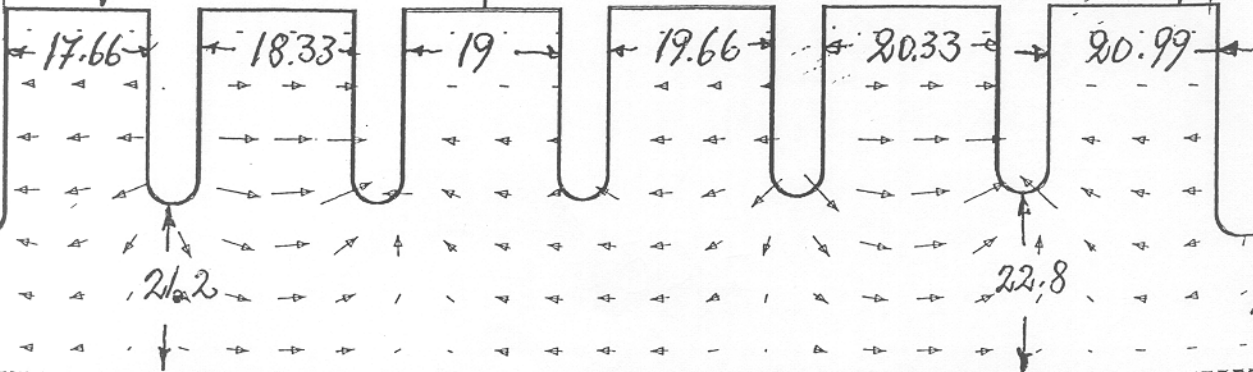
$V_{gr} \sim 0.083c$

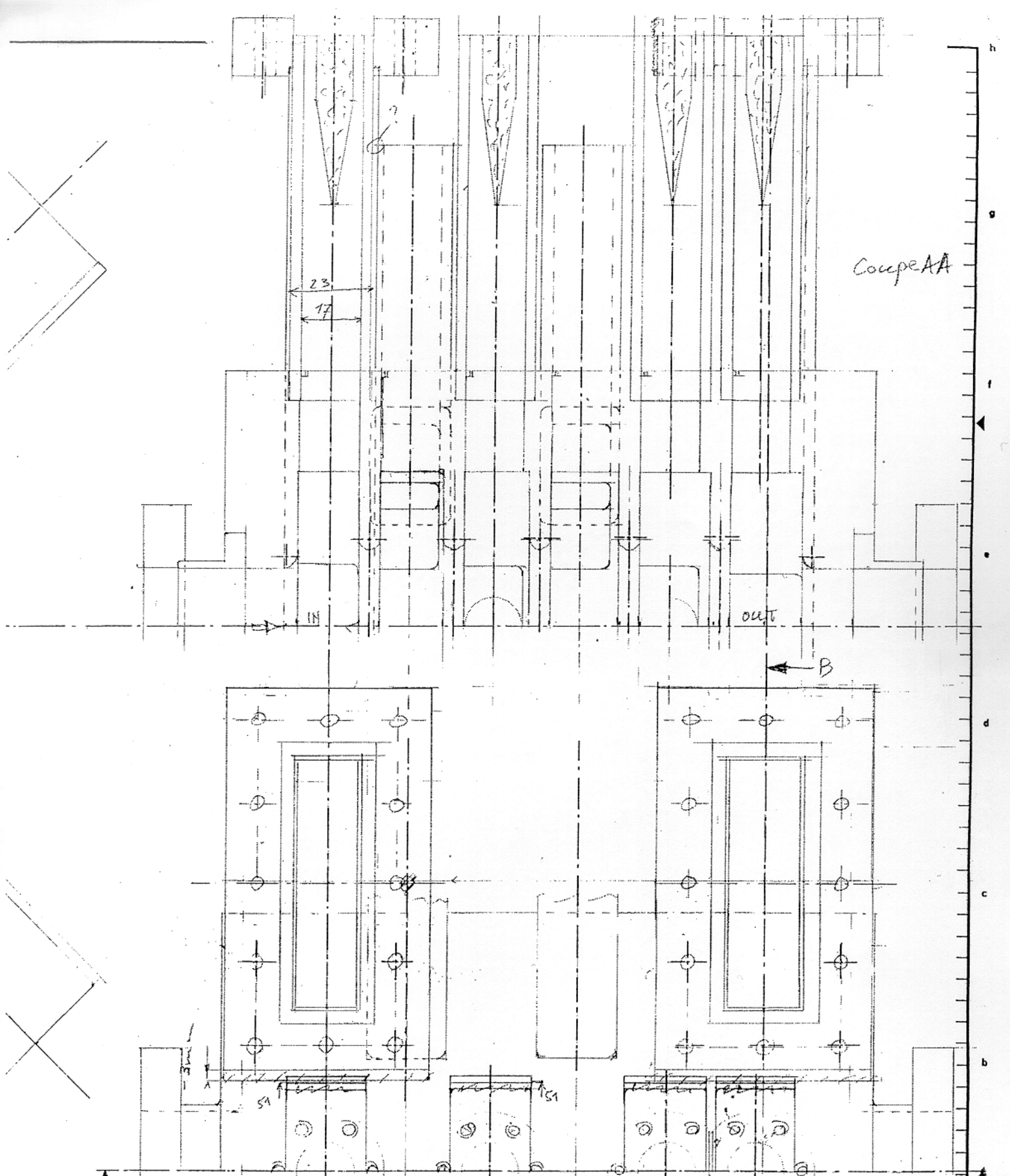
$r = 44.9$

6

$V_{gr} \sim 0.115c$

$r = 45.6$






Coupe AA

out

B

5A

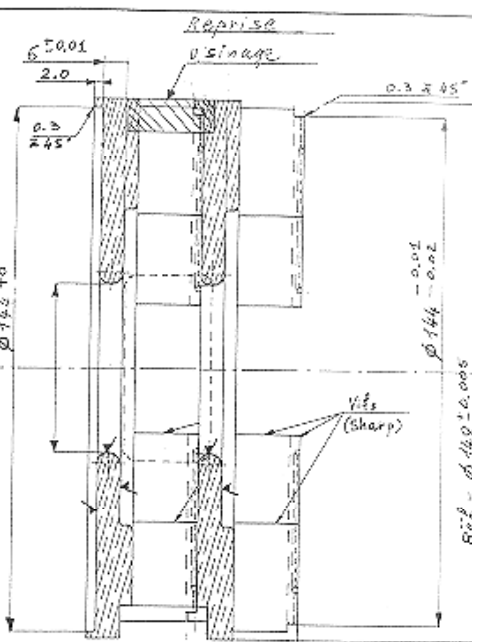
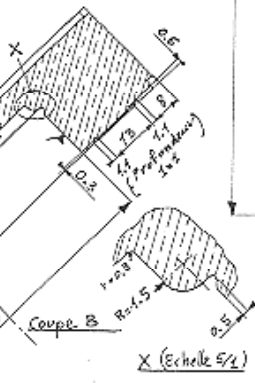
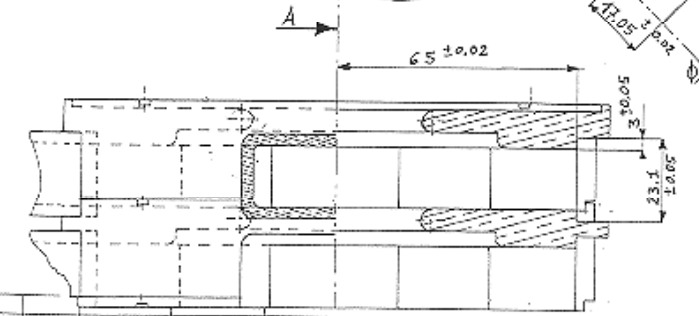
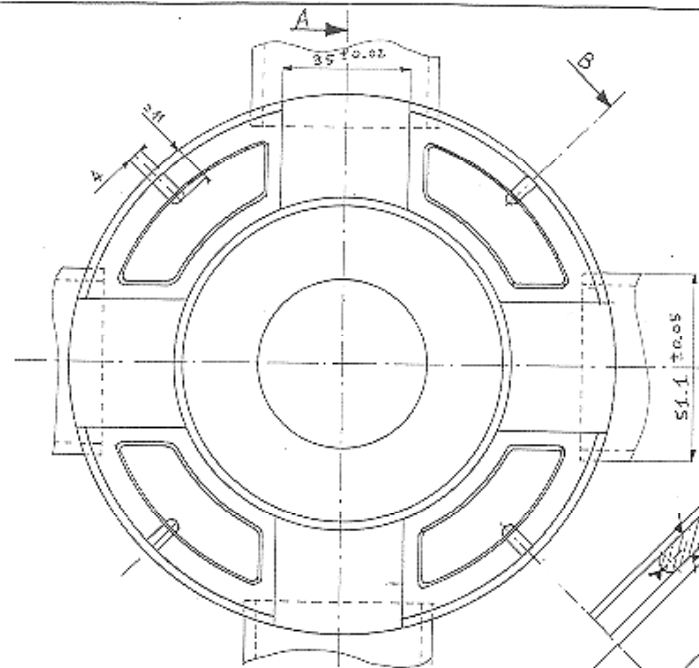
5A

QUANT.	DESCRIPTION	POS.	MATIERE	OBSERVATIONS		
	ENSEMBLE / ASSEMBLY		S. ENS / S. ASSY.			
			EHELLE SCALE 1	DESSINE	NOM	DATE
				CONTROLE		
				VU		
				REPLACE		
 ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH GENEVE			CTF 3010012		INDICE	

PROFILS	A. 4	A. 6	A. 8	A. 10	A. 12	A. 14	A. 16	A. 18	A. 20	A. 22	A. 24	A. 26	A. 28	A. 30	A. 32	A. 34	A. 36	A. 38	A. 40	A. 42	A. 44	A. 46	A. 48	A. 50	A. 52	A. 54	A. 56	A. 58	A. 60	A. 62	A. 64	A. 66	A. 68	A. 70	A. 72	A. 74	A. 76	A. 78	A. 80	A. 82	A. 84	A. 86	A. 88	A. 90	A. 92	A. 94	A. 96	A. 98	A. 100
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PROFILS EN ALUMINIUM
 PROFILES IN ALUMINIUM
 DIMENSIONS IN MILLIMETERS
 ACCORDING TO ISO STANDARDS



1	Cellule		Cu OFE	Rond $\varnothing 150 \times 80$ SCHE: 44.09, 47.610c	
QUANTITE	DESCRIPTION	POS.	MATIERE	OBSERVATIONS	
	ENSEMBLE / ASSEMBLY			S. DNS / S. ASSY.	
	CTF3: BUNCHER			ECHELLE / SCALE	NOM
	Cellule n° 4 + 5 (2 ^{ème} Etape)			1/1	DATE
	Non brasées, pour mesures R.F. et ajustement de Fréquence.			DESSINE / DRAWN	CARRON
				CONTROLÉ / CHECKED	18-9-03
				VU	
				REMP. / REPLACE	
ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE / EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH				CTF3+0109+3	

NOI	DATE	NOM	ZONE	MODIFICATION
1				
2				
3				
4				
5				

Conclusions

- 1 Design work can continue somewhat with approximate parameters.
- 2 Final parameters are wished for february 2001.
- 3 Structure possible for end 2001 if all information is available in february (power test necessary on the first six short cells, perhaps a short section of 6 such cells should be quickly tested earlier? multipactoring?).

G. Carron, A. Millich and L. Thorndahl

*Construction of the
Trav. wave buncher, 3 GHz*