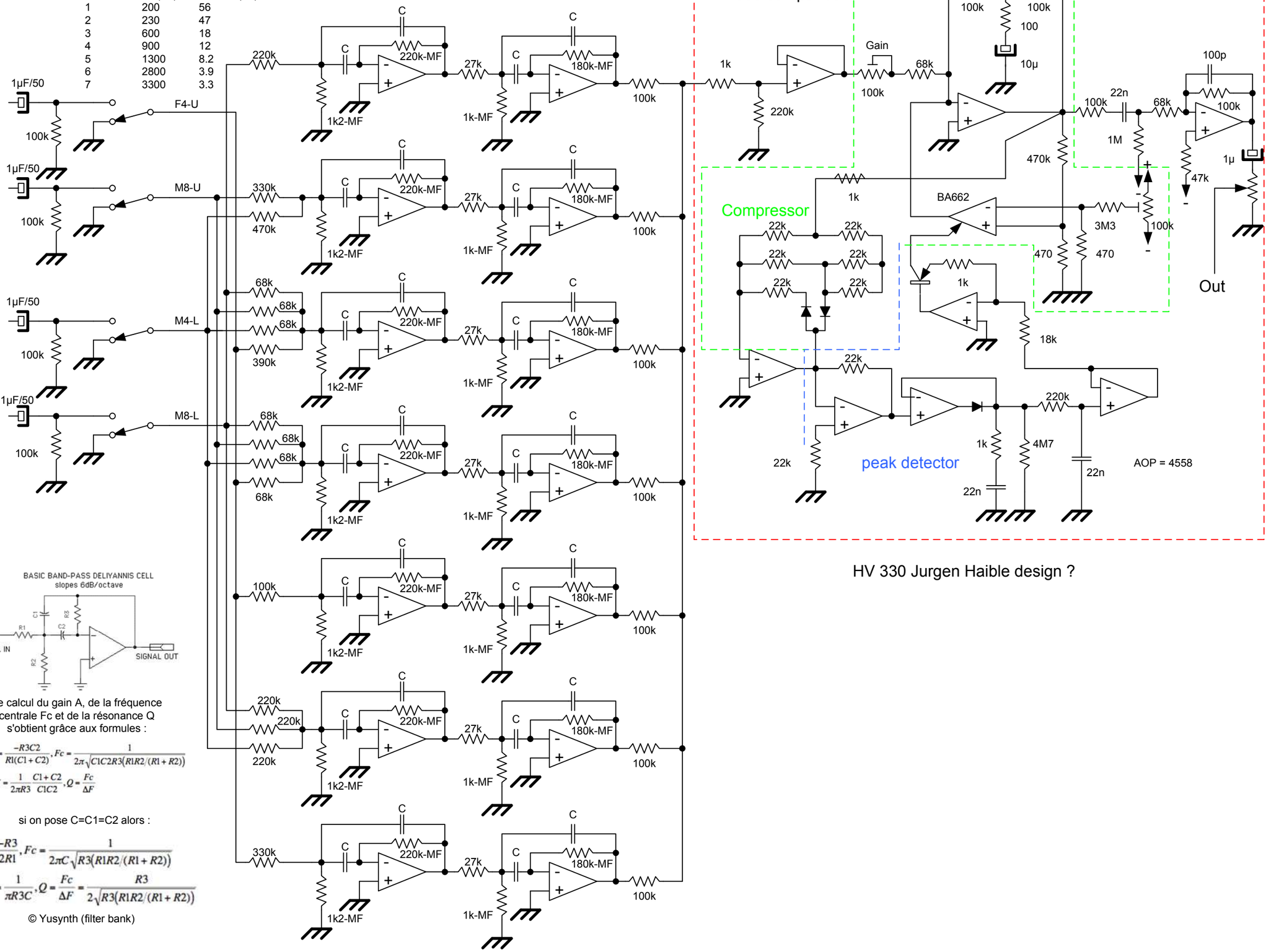
Filter n°	Fc (Hz)	C value (nF)
1	200	56
2	230	47
3	600	18
4	900	12
5	1300	8.2
6	2800	3.9
7	3300	3.3



HV 330 Jurgen Haible design ?

BASIC BAND-PASS DELIYANNIS CELL
slopes 6dB/octave

Le calcul du gain A, de la fréquence centrale Fc et de la résonance Q s'obtient grâce aux formules :

$$A = \frac{-R3C2}{R1(C1+C2)}, Fc = \frac{1}{2\pi\sqrt{C1C2R3(R1R2/(R1+R2))}}$$

$$\Delta F = \frac{1}{2\pi R3}\frac{C1+C2}{C1C2}, Q = \frac{Fc}{\Delta F}$$

si on pose C=C1=C2 alors :

$$A = \frac{-R3}{2R1}, Fc = \frac{1}{2\pi C\sqrt{R3(R1R2/(R1+R2))}}$$

$$\Delta F = \frac{1}{\pi R3C}, Q = \frac{Fc}{\Delta F} = \frac{R3}{2\sqrt{R3(R1R2/(R1+R2))}}$$

Roland
VP 330 Human Voice filters
Redraw by Chok