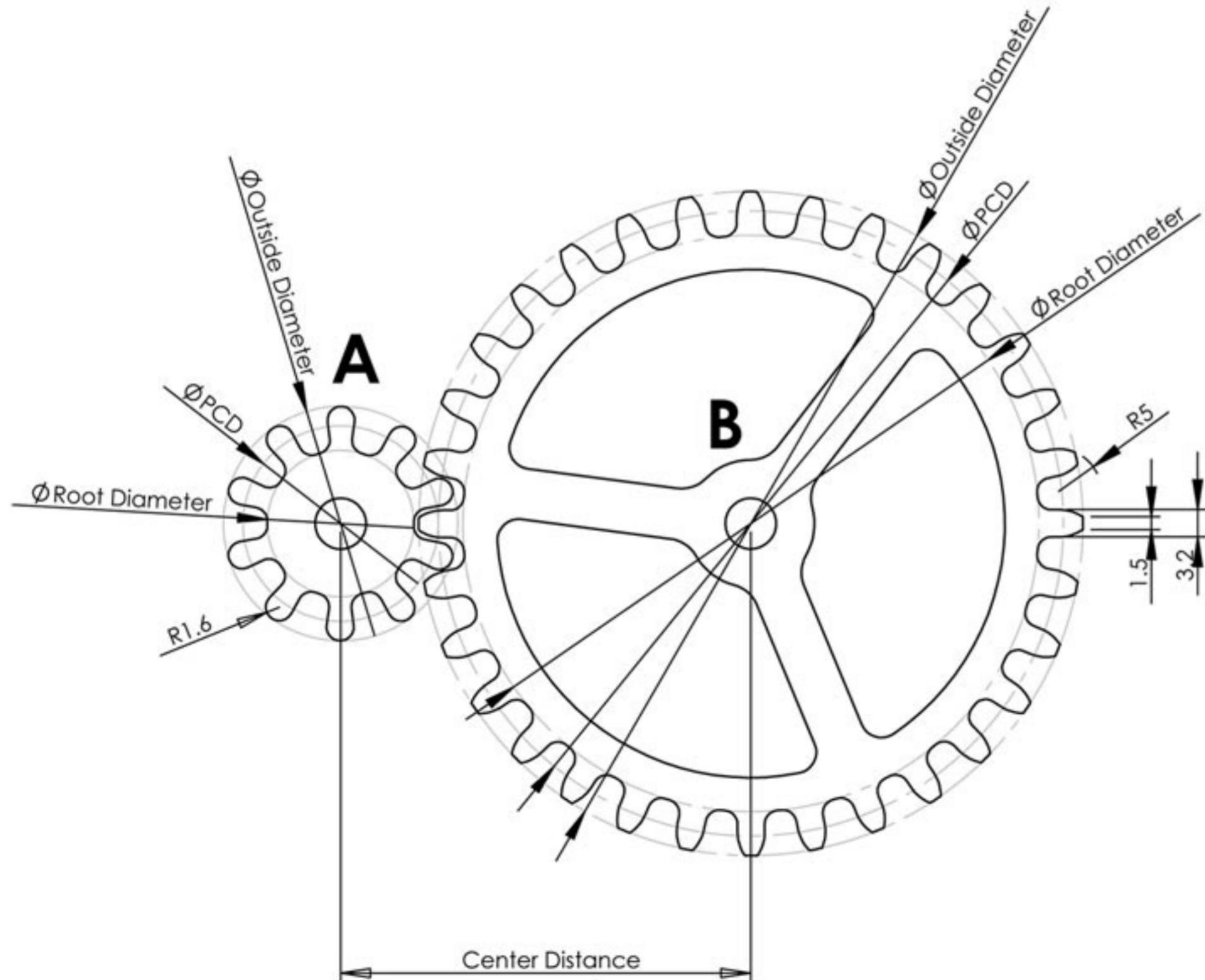


To Find	Module	Imperial
PCD	= No. of TEETH x MOD (mm)	= $\frac{\text{No. of TEETH}}{\text{DP}}$ (ins)
ØD	= (No. of TEETH + 2) x MOD (mm)	= $\frac{\text{No. of TEETH} + 2}{\text{DP}}$ (ins)
DP	= $\frac{25.4}{\text{MODULE}}$	= $\frac{\pi}{\text{CP}''}$
MODULE	= $\frac{\text{CP}}{\pi}$ (mm)	= $\frac{25.4}{\text{DP}}$
No. of TEETH	= PCD ÷ MODULE (mm)	= PCD'' x DP
CP	= MODULE x π (mm)	= $\frac{\pi}{\text{DP}}$ (ins)
ADDENDUM	= MODULE (mm)	= $\frac{1}{\text{DP}}$ (ins)
DEDENDUM	= 1.4 x MOD (0.25-1 MOD) = 1.25 x MOD (1.25-8 MOD)	= $\frac{1.4}{\text{DP}}$ (100-24 DP) = $\frac{1.25}{\text{DP}}$ (20-6 DP)

Center distance between mating gears = (PCD Gear A+PCD Gear B) / 2



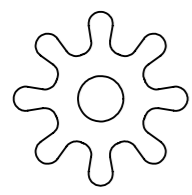
Number of Teeth	Pitch Circle Diameter	Outside Diameter	Root Diameter	Tooth Thickness	Root Radius	Module
8	18.4	23	12.65	3.2	1.6	2.3
10	23	27.6	17.25	3.2	1.6	2.3
12	27.6	32.2	21.85	3.2	1.6	2.3
14	32.2	36.8	26.45	3.2	1.6	2.3
15	34.5	39.1	28.75	3.2	1.6	2.3
16	36.8	41.4	31.05	3.2	1.6	2.3
18	41.4	46	35.65	3.2	1.6	2.3
20	46	50.6	40.25	3.2	1.6	2.3
22	50.6	55.2	44.85	3.2	1.6	2.3
24	55.2	59.8	49.45	3.2	1.6	2.3
25	57.5	62.1	51.75	3.2	1.6	2.3
28	64.4	69	58.65	3.2	1.6	2.3
30	69	73.6	63.25	3.2	1.6	2.3
32	73.6	78.2	67.85	3.2	1.6	2.3
34	78.2	82.8	72.45	3.2	1.6	2.3
38	87.4	92	81.65	3.2	1.6	2.3
40	92	96.6	86.25	3.2	1.6	2.3
45	103.5	108.1	97.75	3.2	1.6	2.3
50	115	119.6	109.25	3.2	1.6	2.3
54	124.2	128.8	118.45	3.2	1.6	2.3
60	138	142.6	132.25	3.2	1.6	2.3
64	147.2	151.8	141.45	3.2	1.6	2.3
70	161	165.6	155.25	3.2	1.6	2.3
72	165.6	170.2	159.85	3.2	1.6	2.3
75	172.5	177.1	166.75	3.2	1.6	2.3
80	184	188.6	178.25	3.2	1.6	2.3
84	193.2	197.8	187.45	3.2	1.6	2.3
90	207	211.6	201.25	3.2	1.6	2.3
96	220.8	225.4	215.05	3.2	1.6	2.3
100	230	234.6	224.25	3.2	1.6	2.3

The box on each page is 25.4mm (1 inch) square

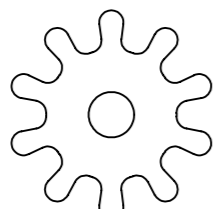


Brian Law's Woodenclocks
A collection of Spur Gears based on the tooth profiles used in the woodenclocks

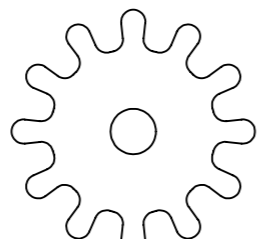
Brian Law February 2011



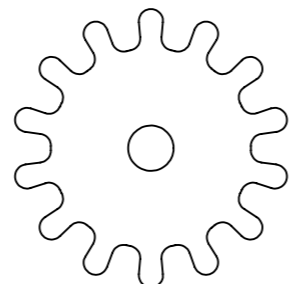
8 Teeth



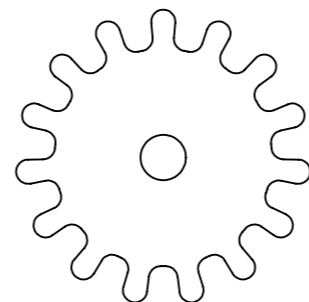
10 Teeth



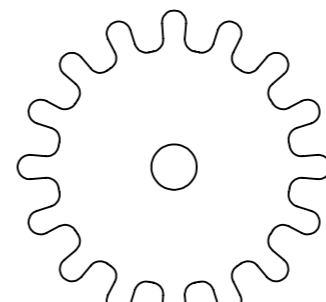
12 Teeth



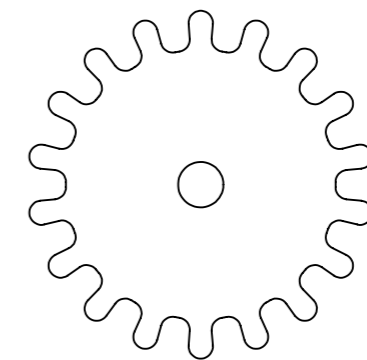
14 Teeth



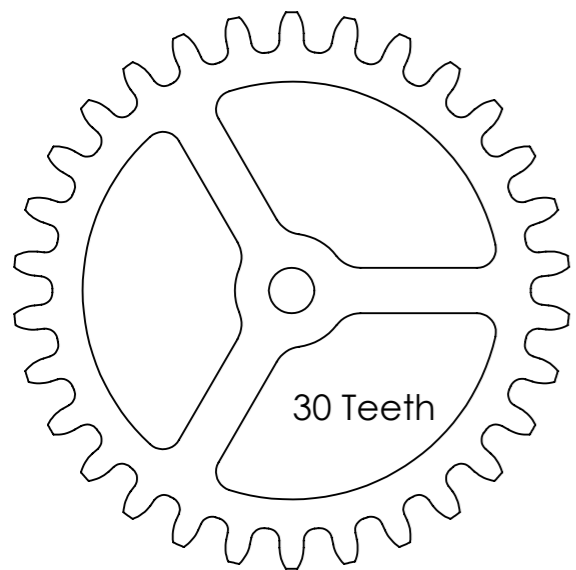
15 Teeth



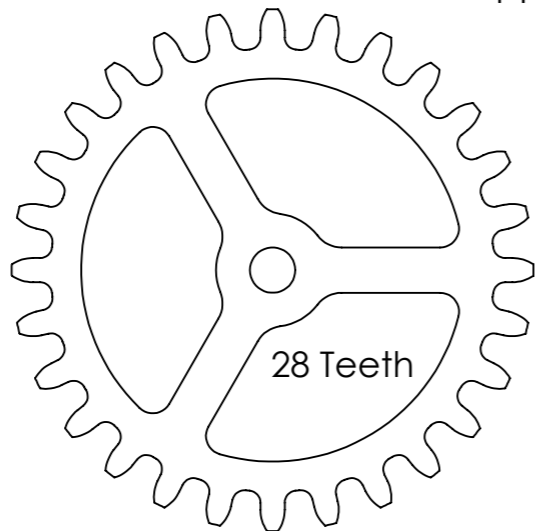
16 Teeth



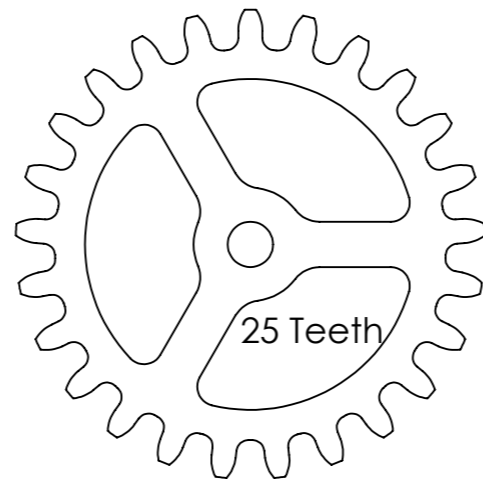
18 Teeth



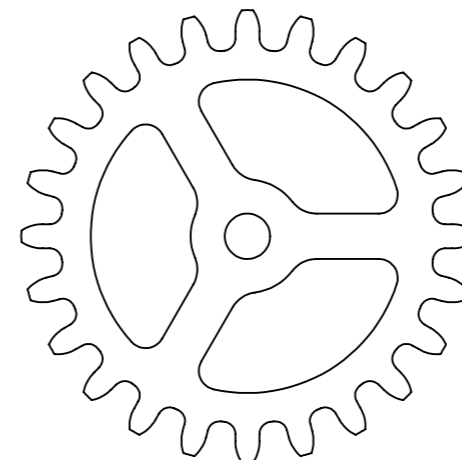
30 Teeth



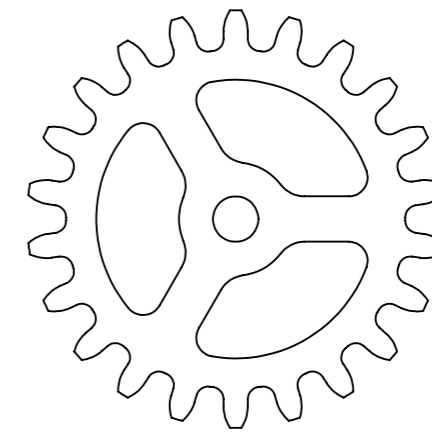
28 Teeth



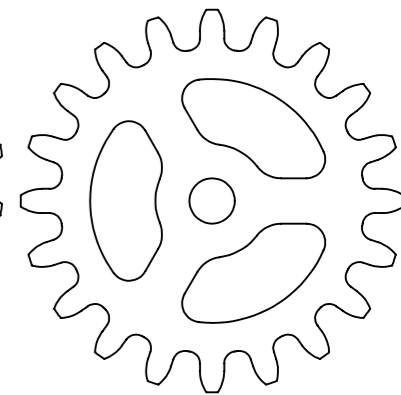
25 Teeth



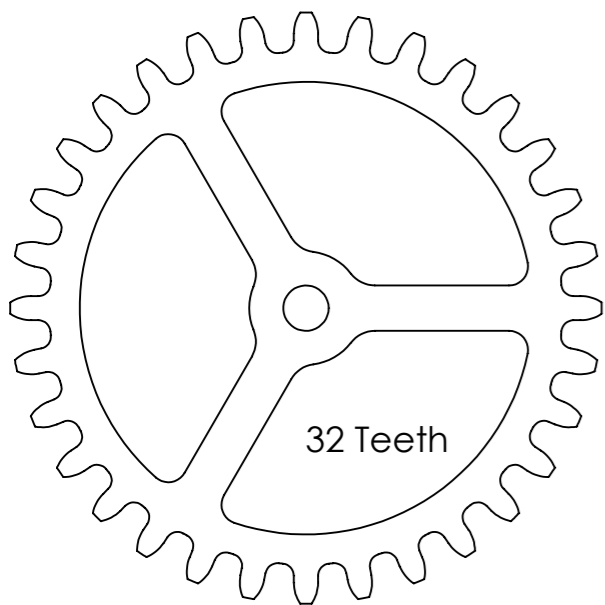
24 Teeth



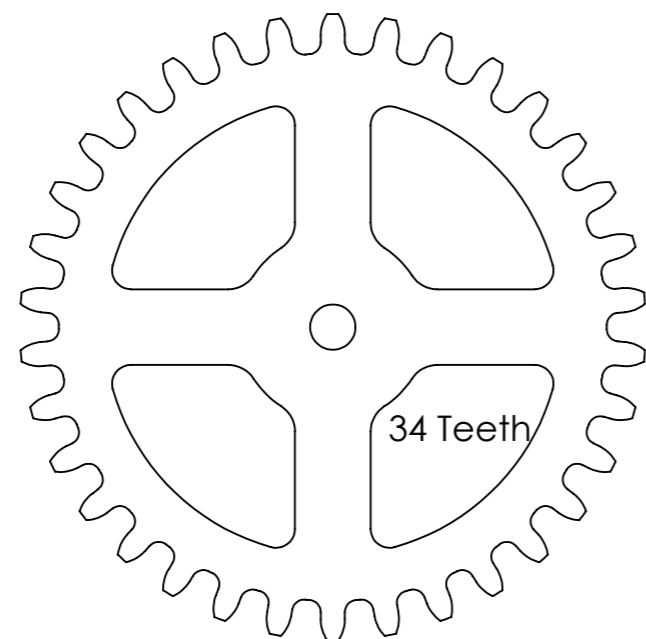
22 Teeth



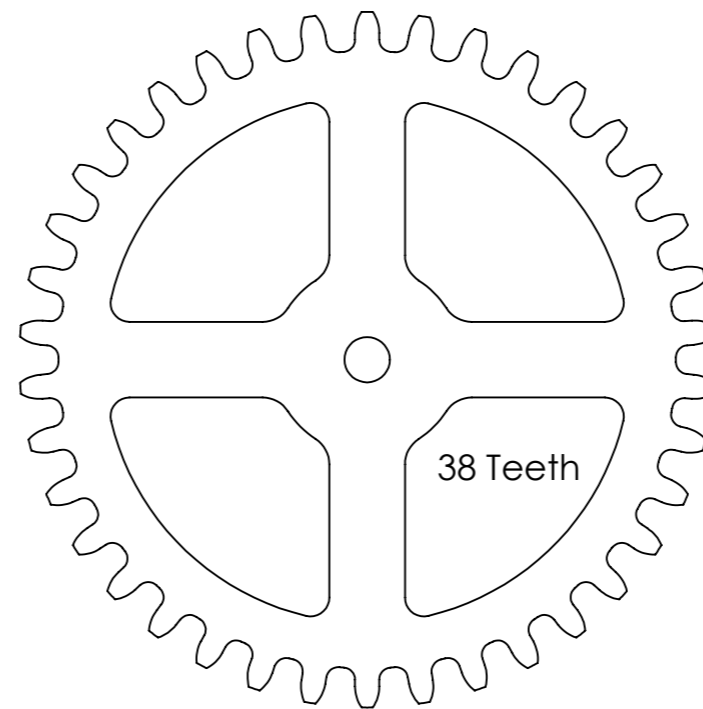
20 Teeth



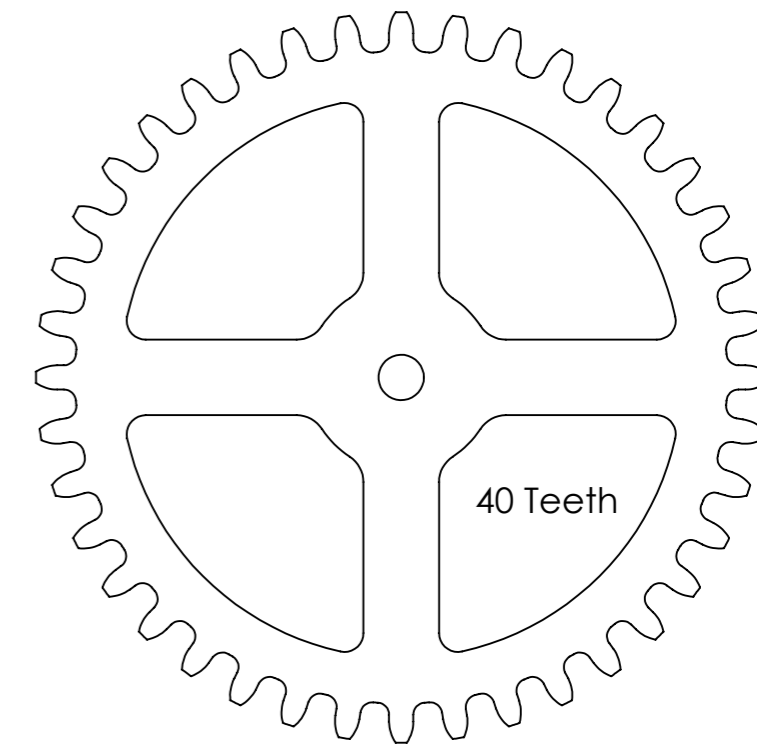
32 Teeth



34 Teeth



38 Teeth

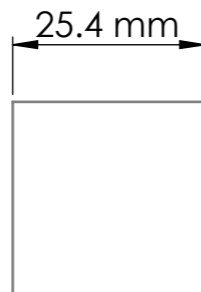


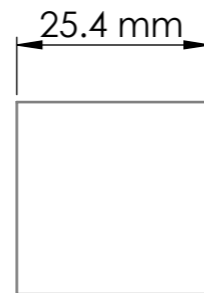
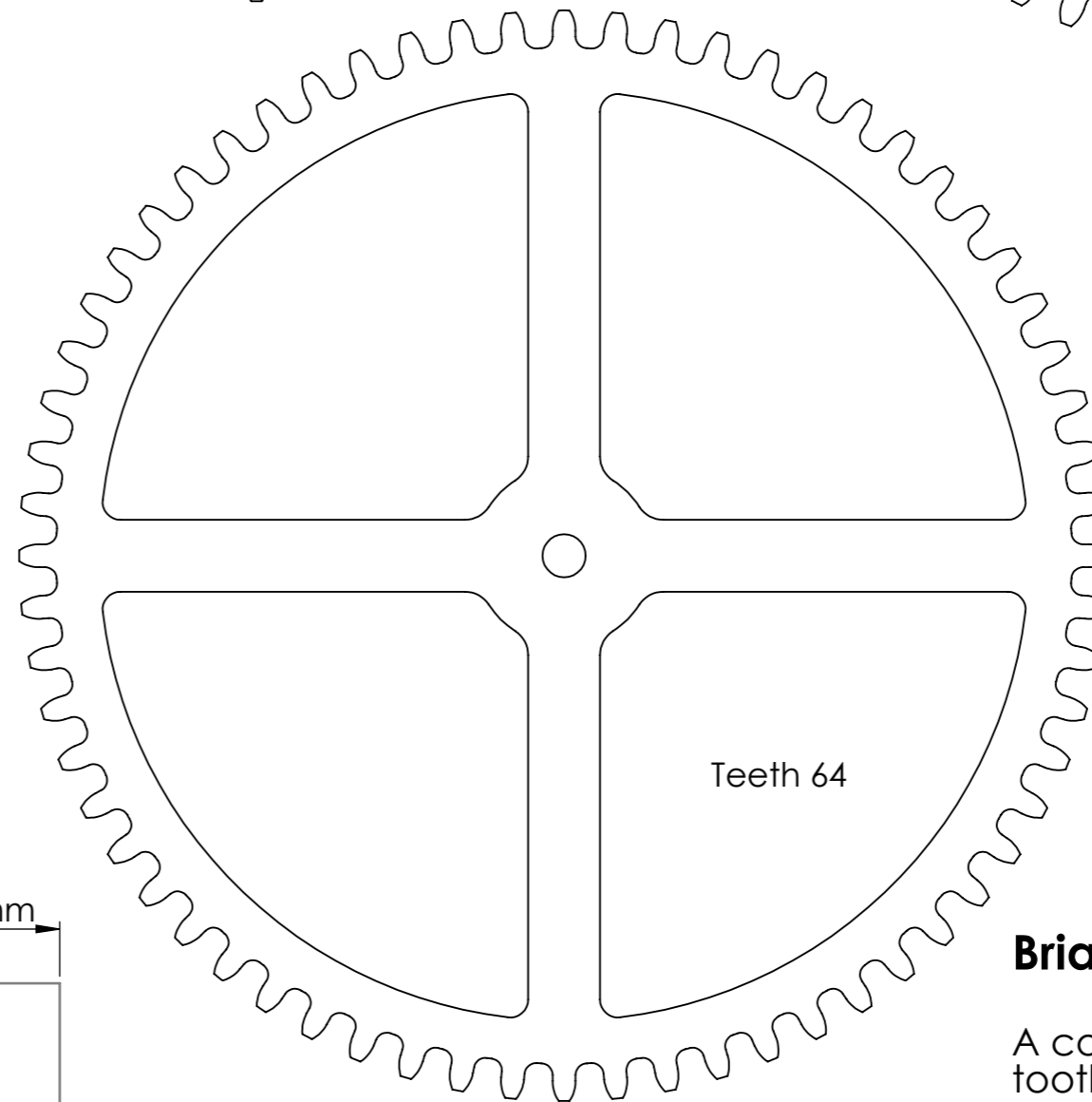
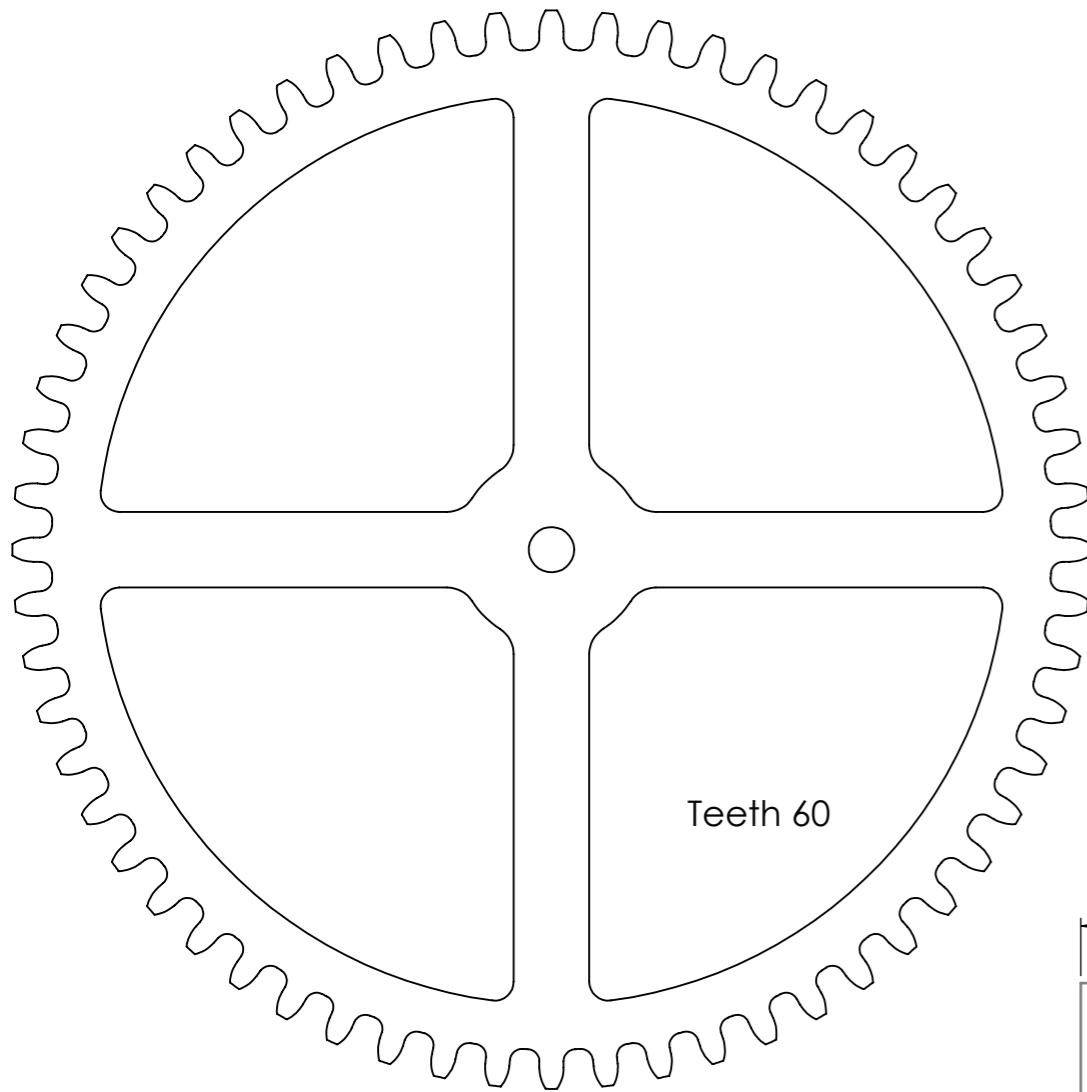
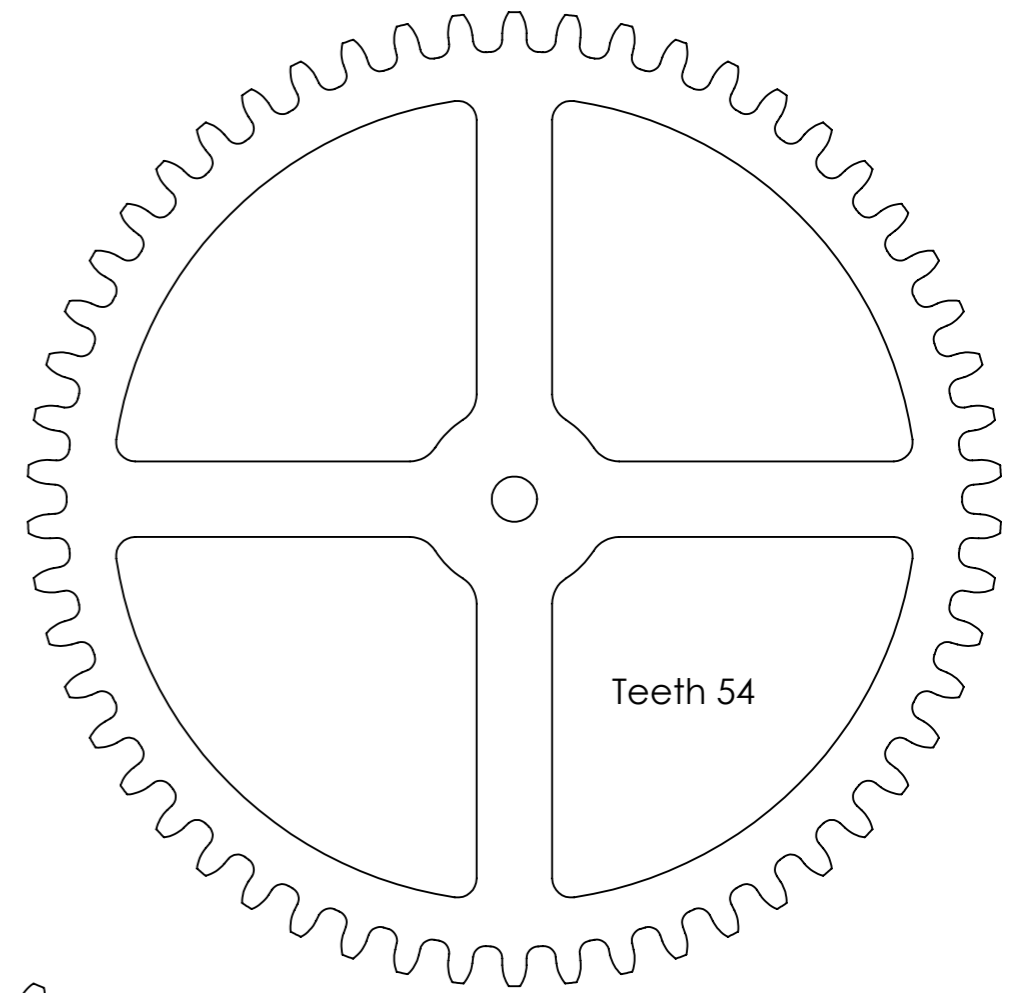
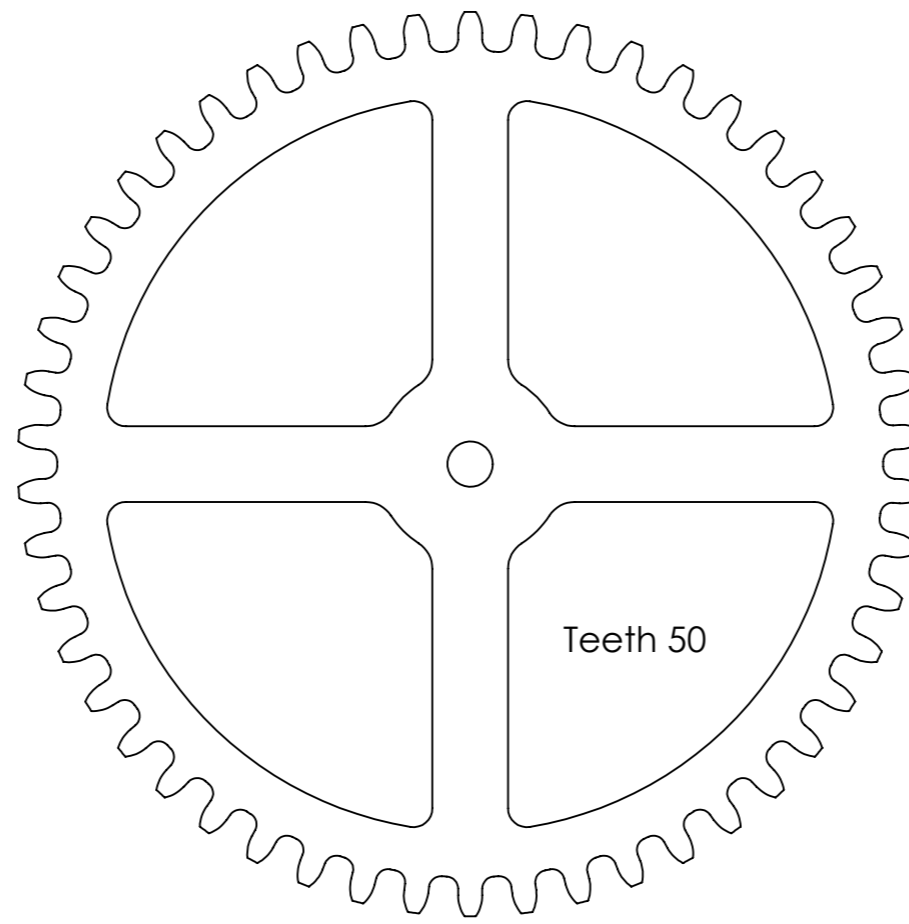
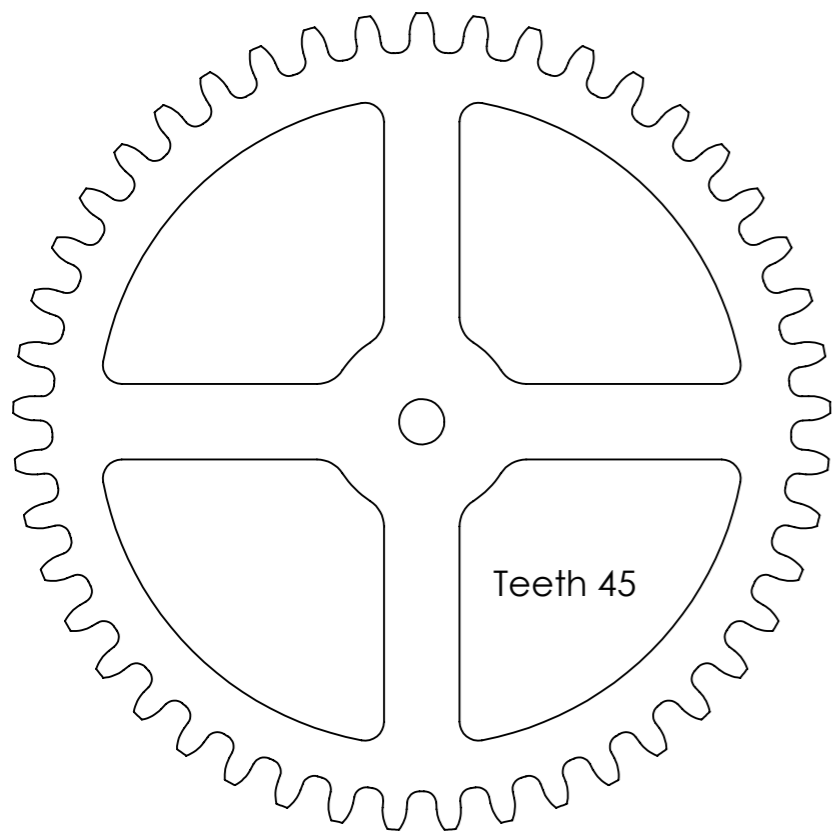
40 Teeth

Brian Law's Woodenclocks

A collection of Spur Gears based on the tooth profiles used in the woodenclocks

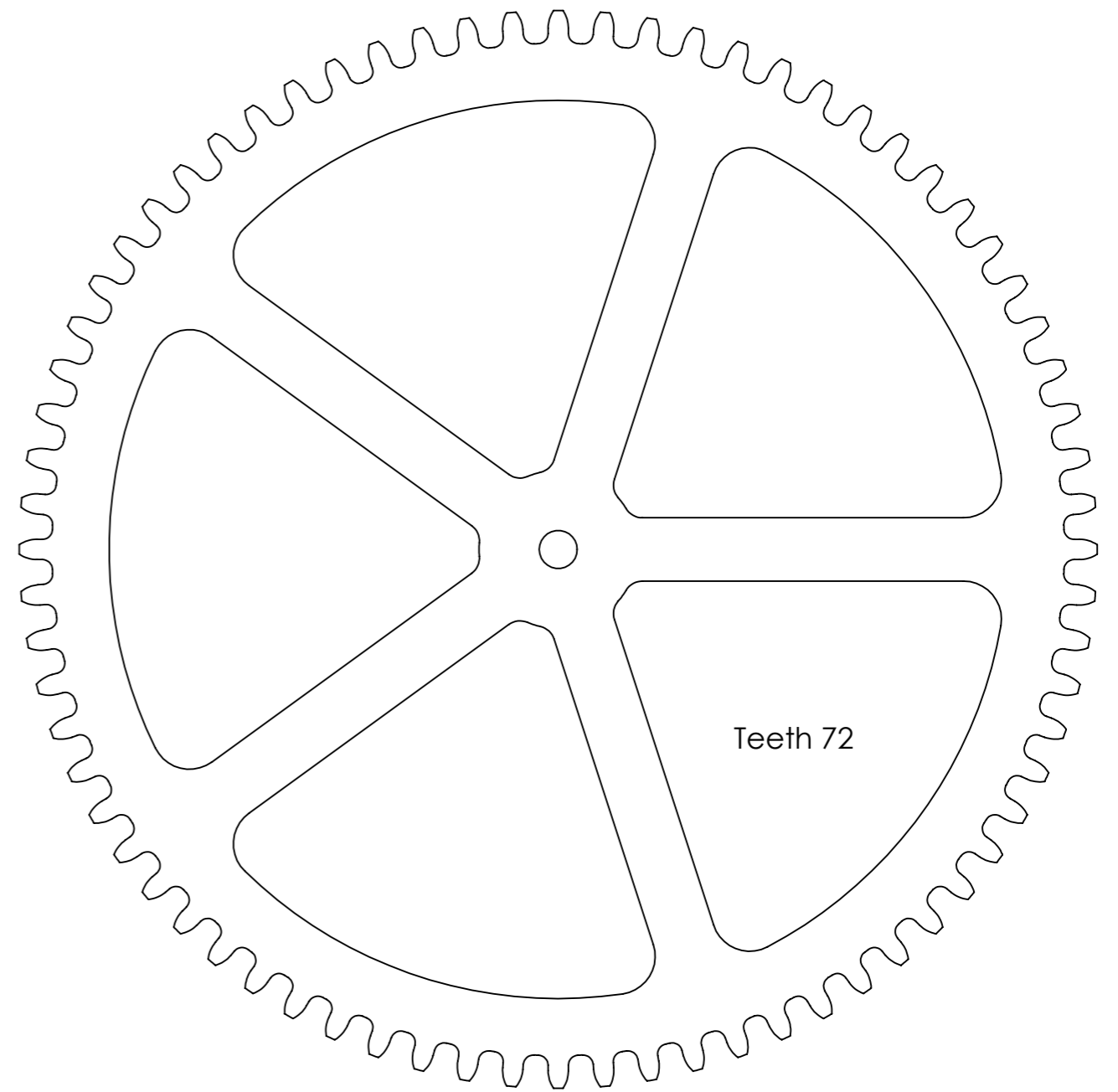
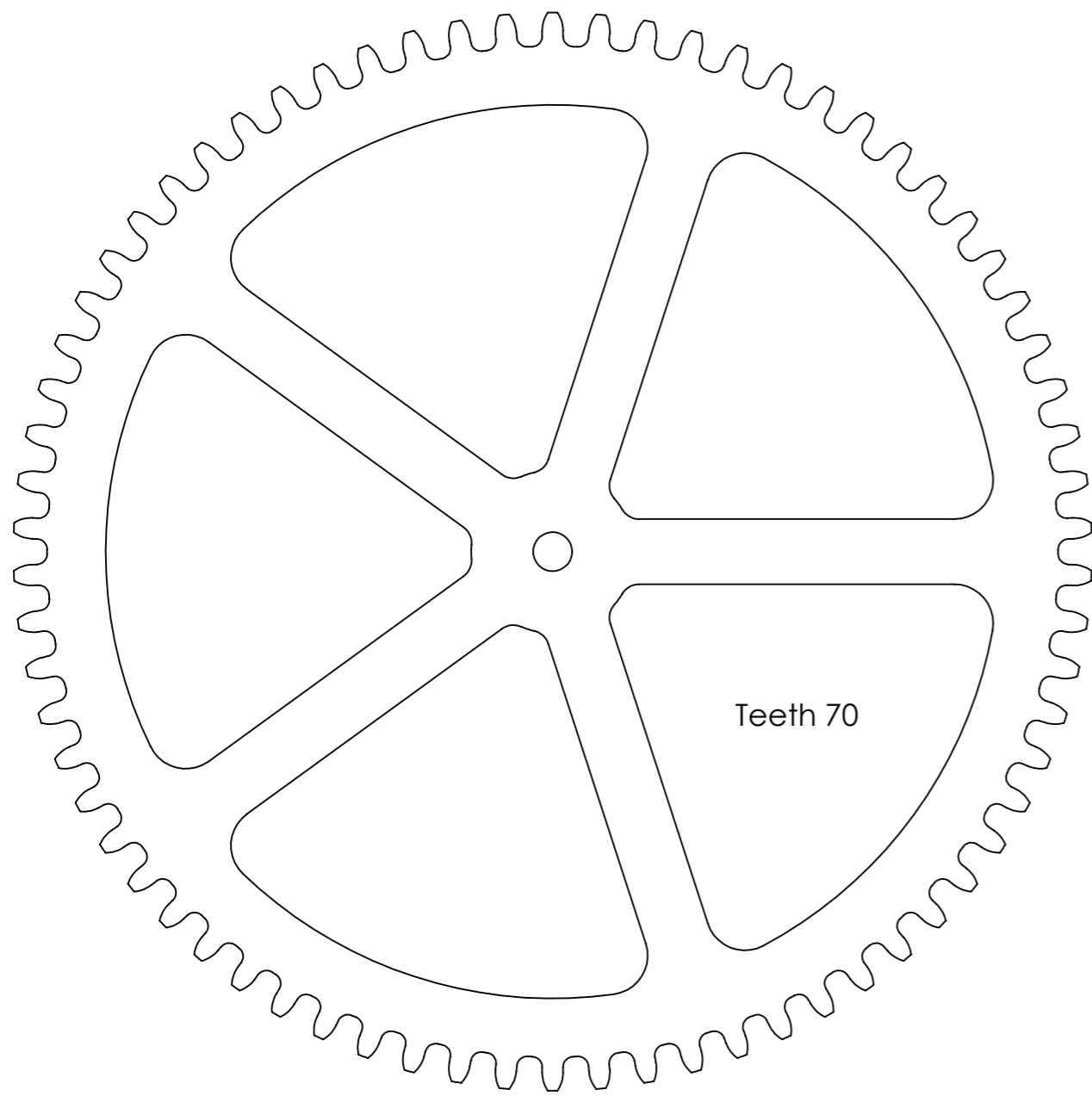
Brian Law February 2011 Sheet 2





Brian Law's Woodenclocks

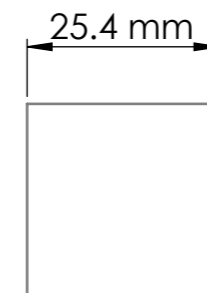
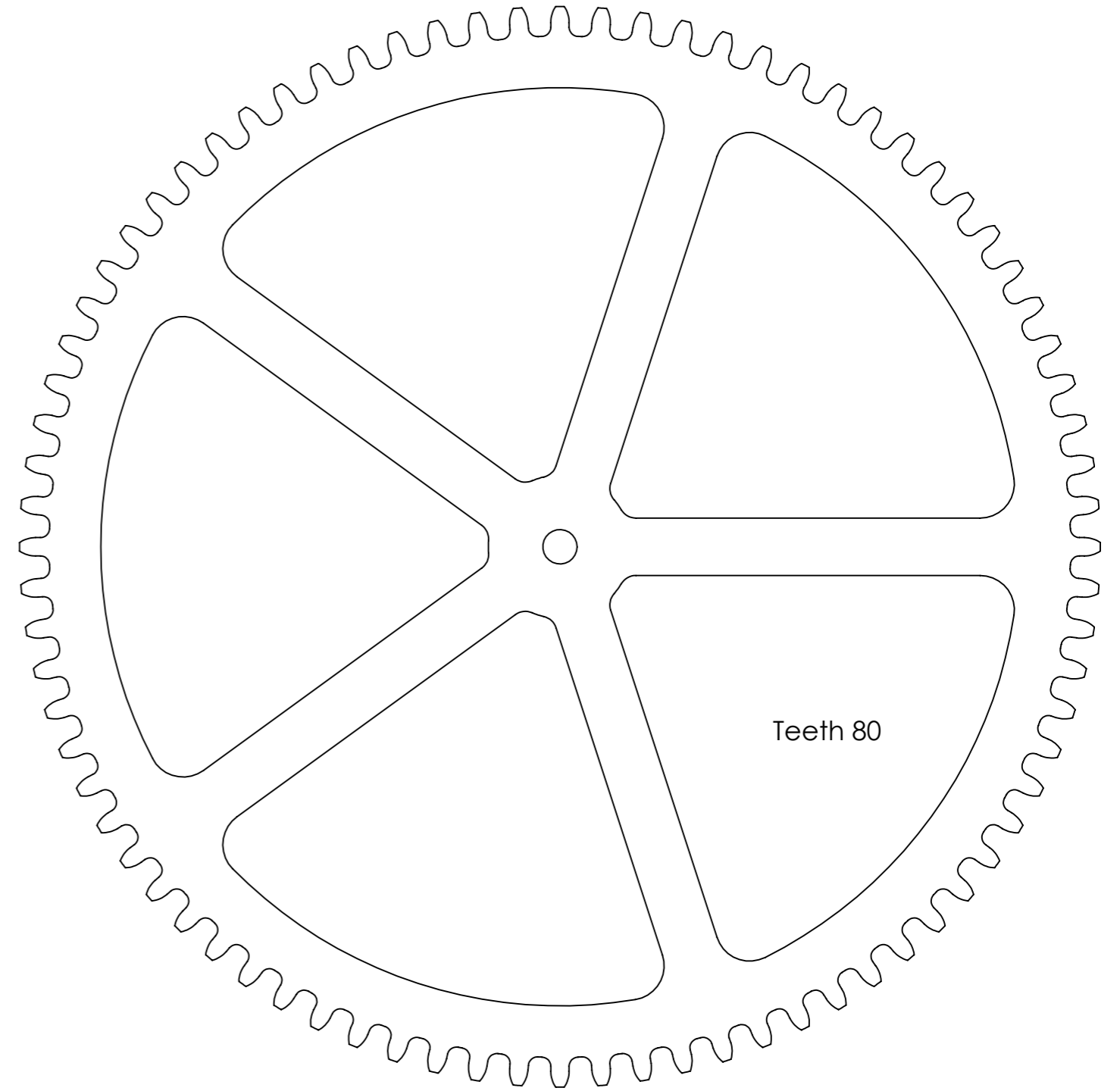
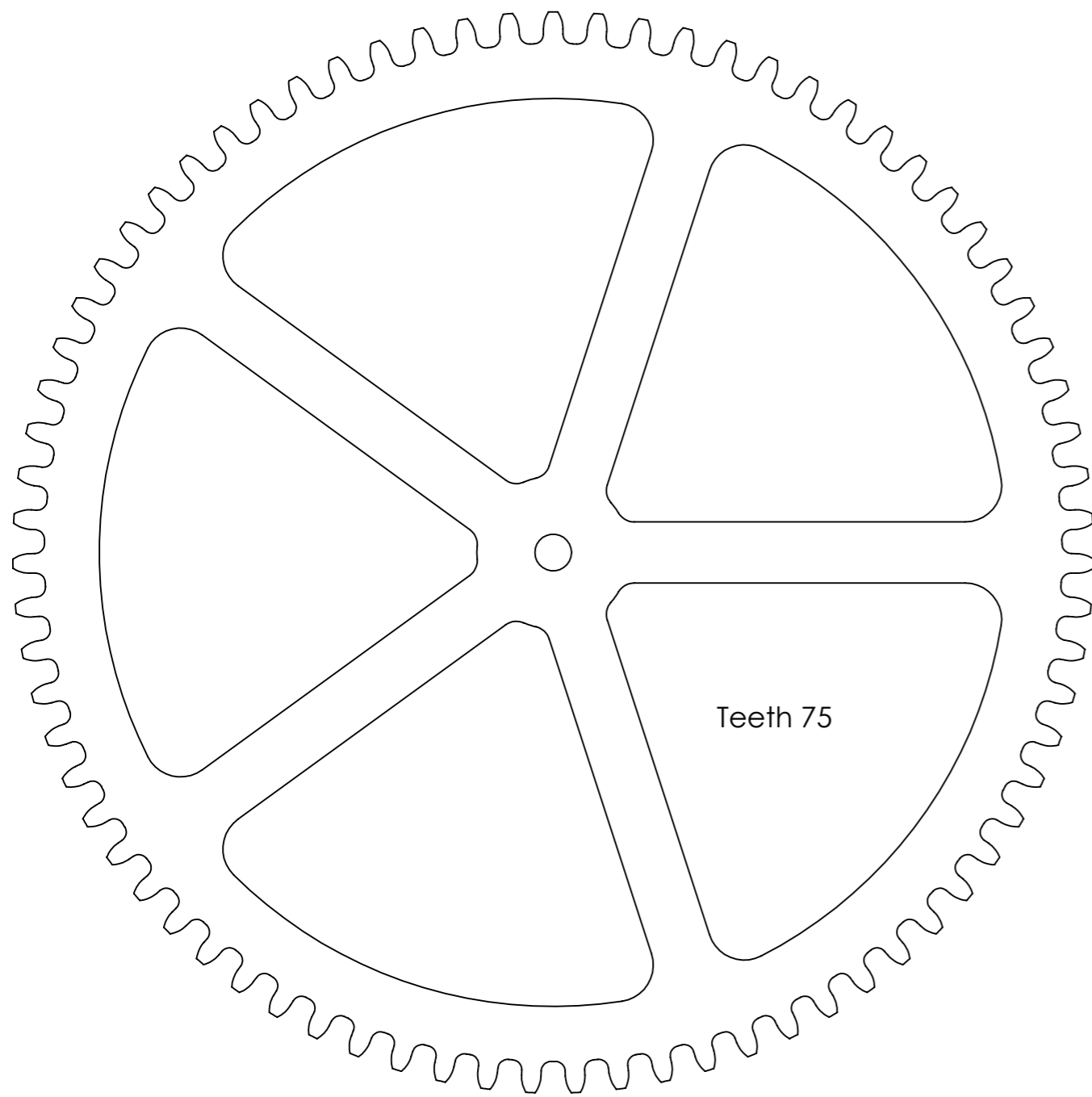
A collection of Spur Gears based on the tooth profiles used in the woodenclocks



Brian Law's Woodenclocks

A collection of Spur Gears based on the tooth profiles used in the woodenclocks

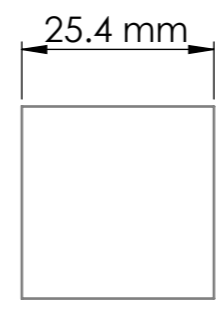
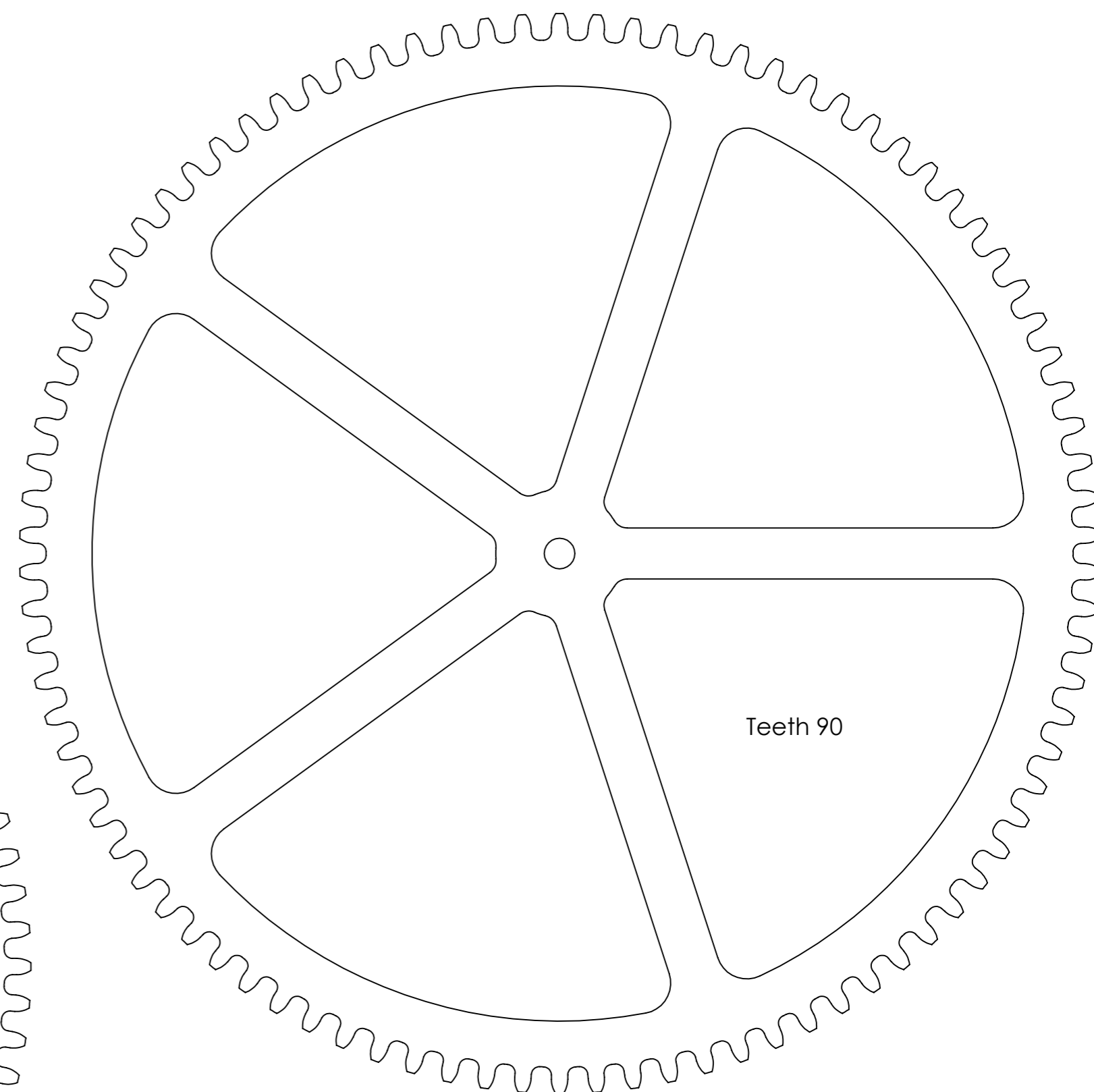
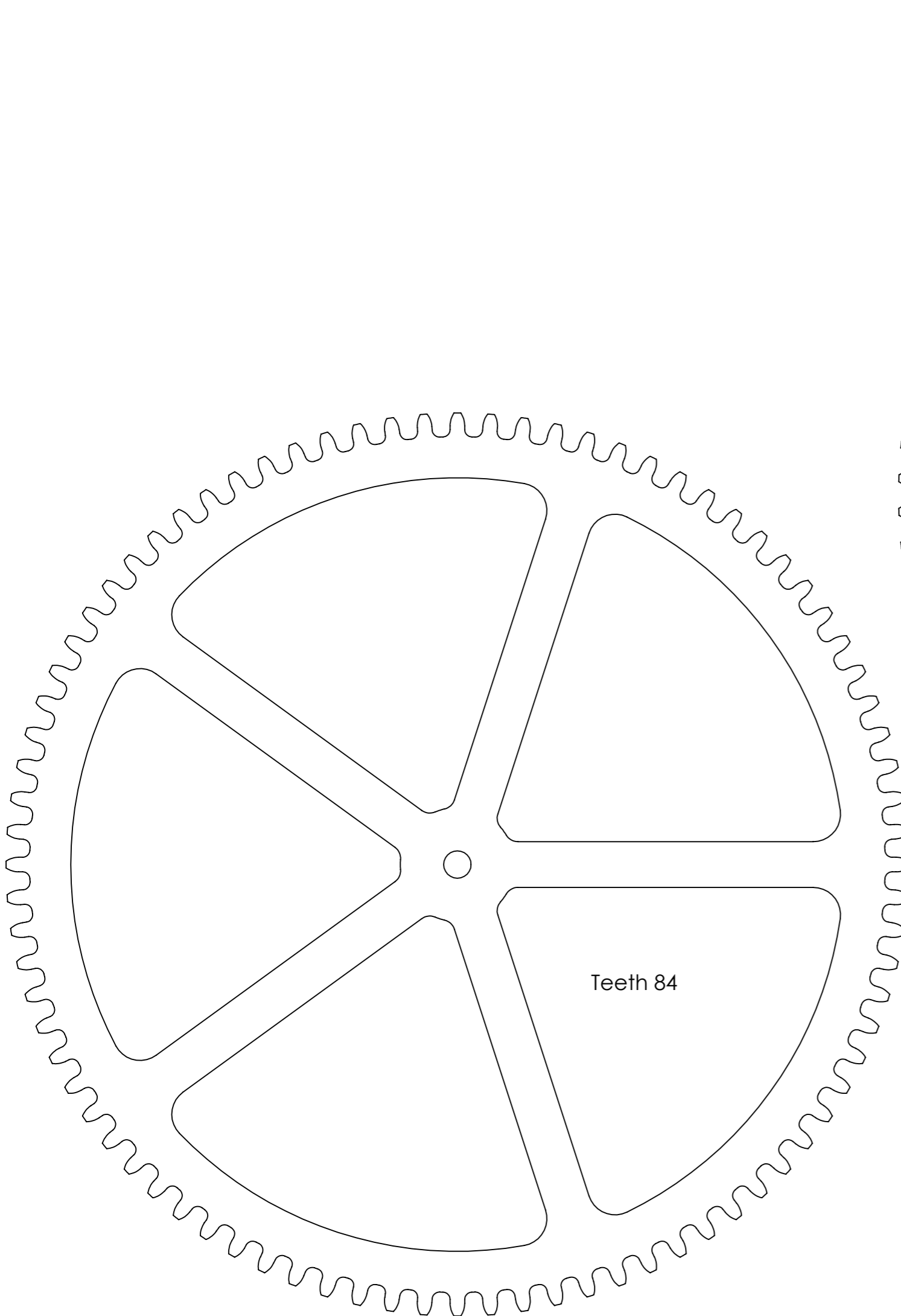
Brian Law February 2011 Sheet 4



Brian Law's Woodenclocks

A collection of Spur Gears based on the tooth profiles used in the woodenclocks

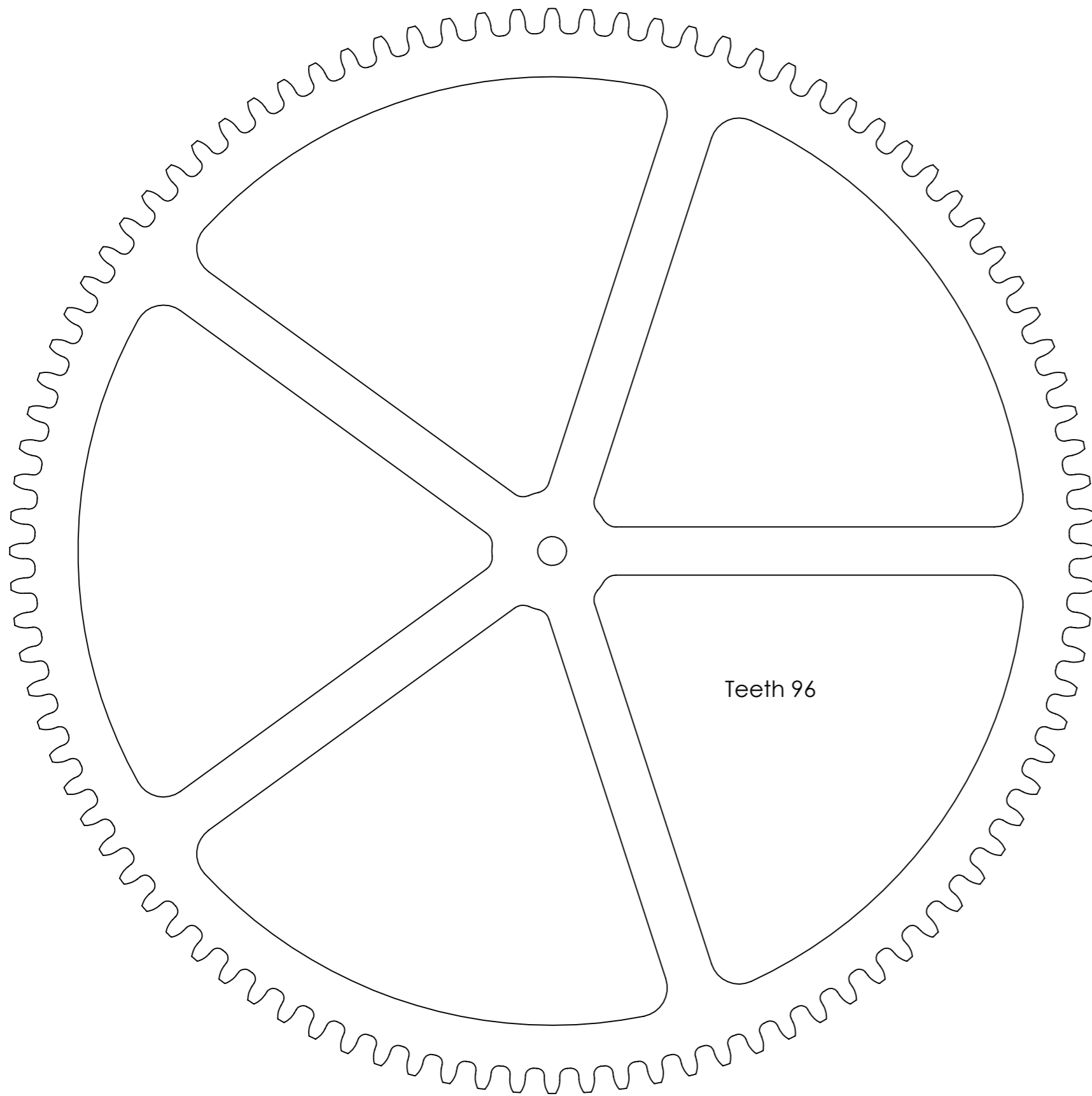
Brian Law February 2011 Sheet 5



Brian Law's Woodenclocks

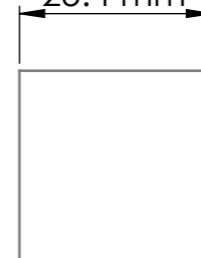
A collection of Spur Gears based on the tooth profiles used in the woodenclocks

Brian Law February 2011 Sheet 6



Teeth 96

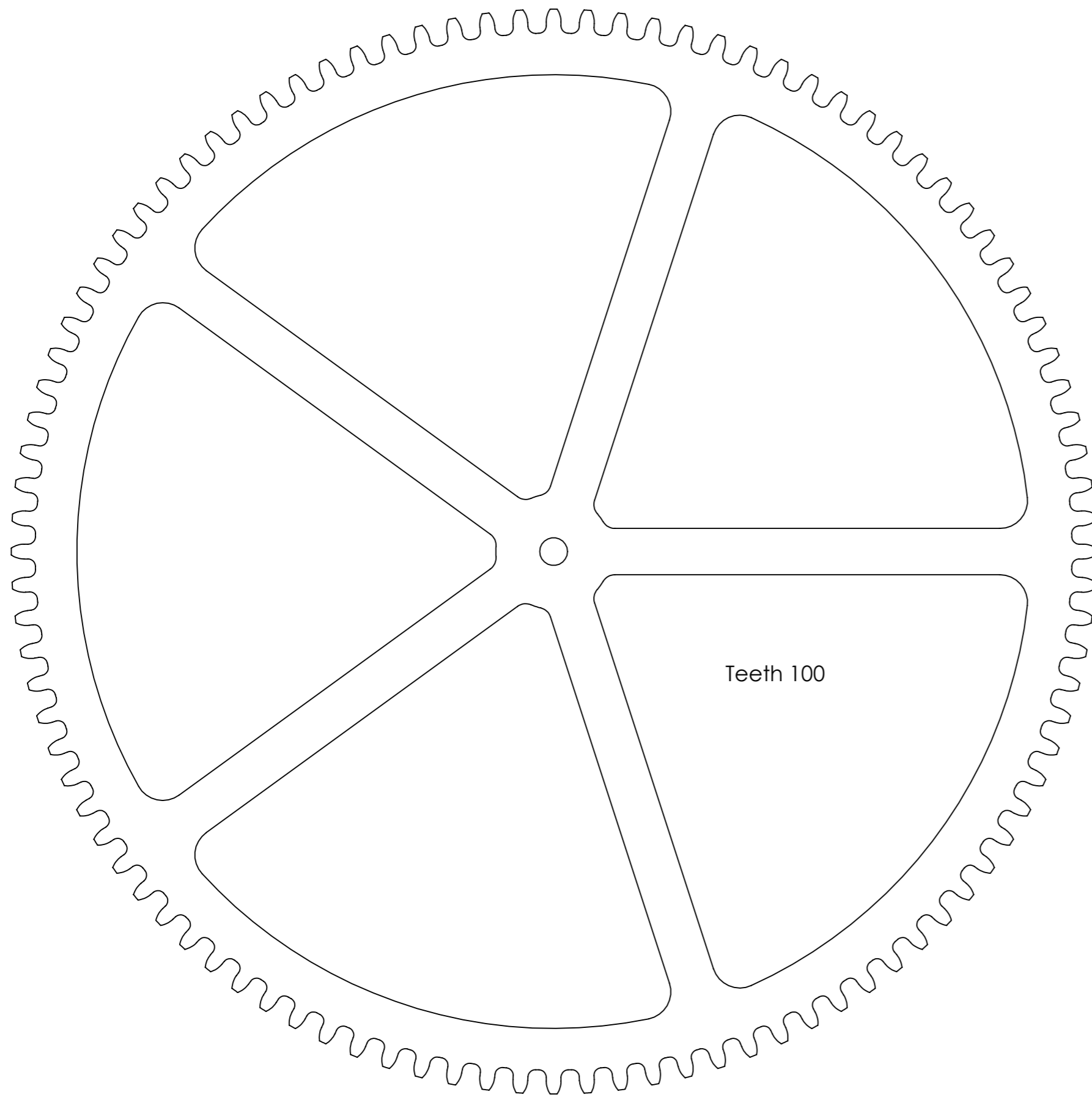
25.4 mm



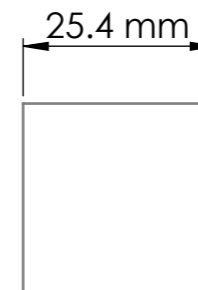
Brian Law's Woodenclocks

A collection of Spur Gears based on the tooth profiles used in the woodenclocks

Brian Law February 2011 Sheet 7



Teeth 100



Brian Law's Woodenclocks

A collection of Spur Gears based on the tooth profiles used in the woodenclocks

Brian Law February 2011 Sheet 8