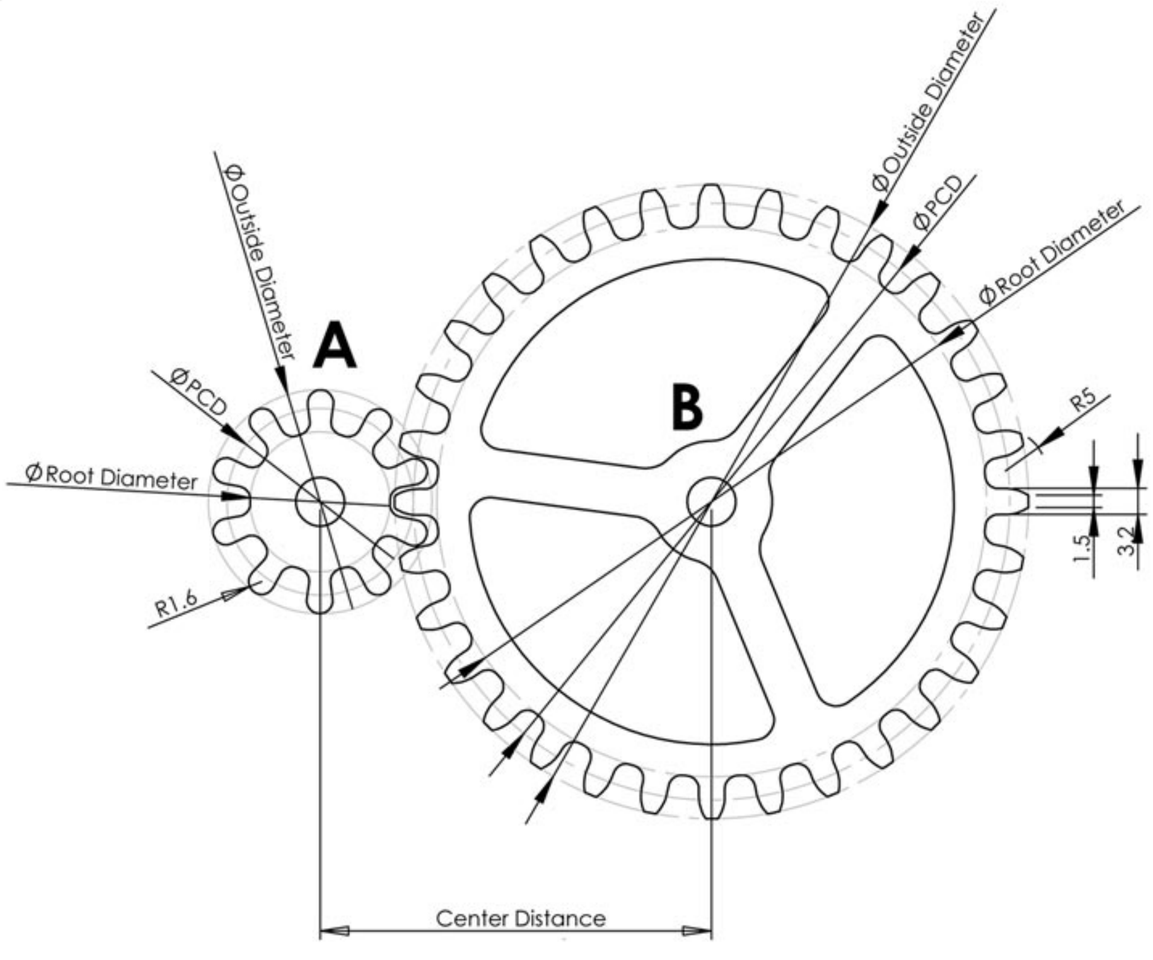
To Find	Module	Imperial
PCD	= No. of TEETH x MOD (mm)	= $\frac{\text{No. of TEETH}}{\text{DP}}$ (ins)
ØD	= (No. of TEETH + 2) x MOD (mm)	= $\frac{\text{No. of TEETH + 2}}{\text{DP}}$ (ins)
DP	= $\frac{25.4}{\text{MODULE}}$	= $\frac{\pi}{\text{CP"}}$
MODULE	= $\frac{\text{CP}}{\pi}$ (mm)	= $\frac{25.4}{\text{DP}}$
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



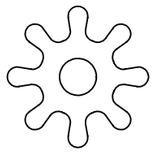
Number of Teeth	Pitch Circle Diameter	Outside Diameter	Root Diameter	ToothThickness	Root Radius	Module
8	18.4	23	12.65	3.2	1.6	2.3
10	23	27.6	17.25	3.2	1.6	2.3
12	27.6	32.2	21.85	3.2	1.6	2.3
14	32.2	36.8	26.45	3.2	1.6	2.3
15	34.5	39.1	28.75	3.2	1.6	2.3
16	36.8	41.4	31.05	3.2	1.6	2.3
18	41.4	46	35.65	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

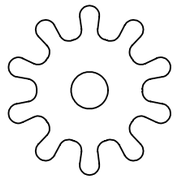
Brian Law's Woodenclocks

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

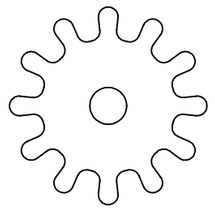
Brian Law February 2011



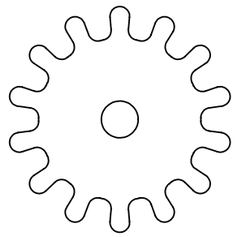
8 Teeth



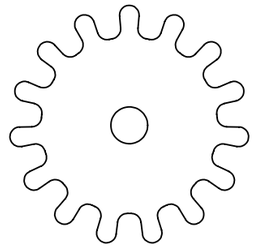
10 Teeth



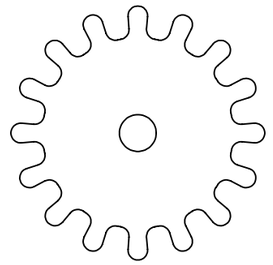
12 Teeth



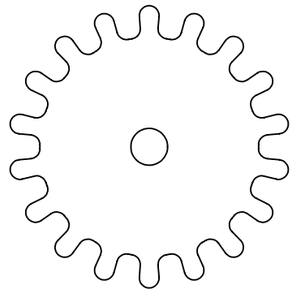
14 Teeth



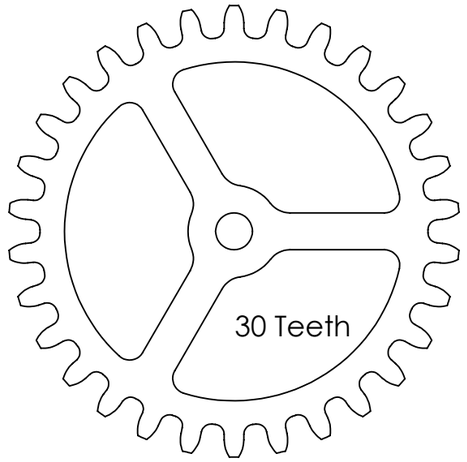
15 Teeth

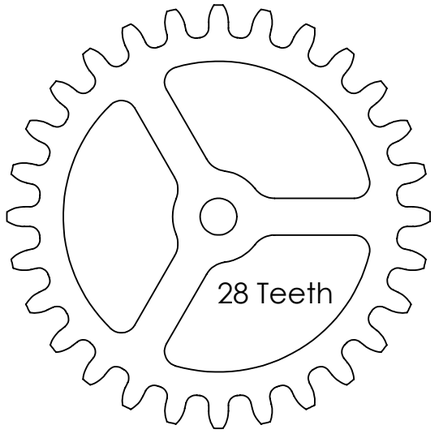


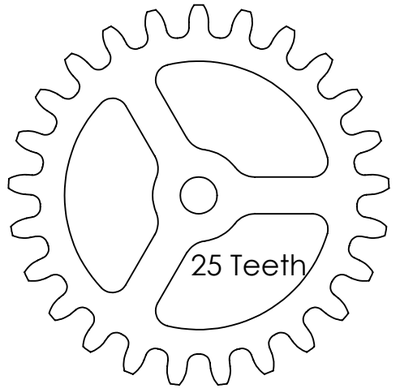
16 Teeth

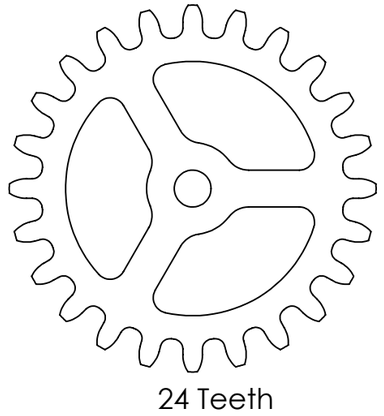


18 Teeth

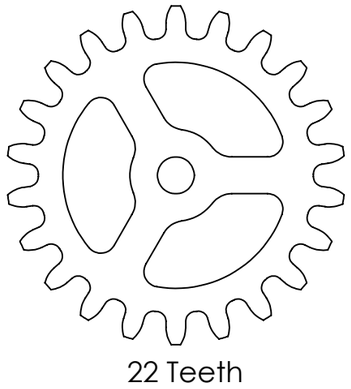




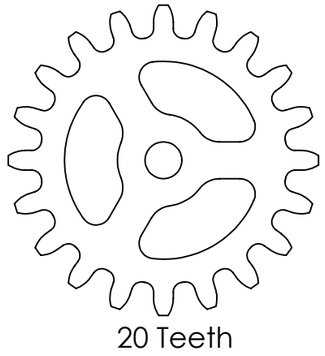




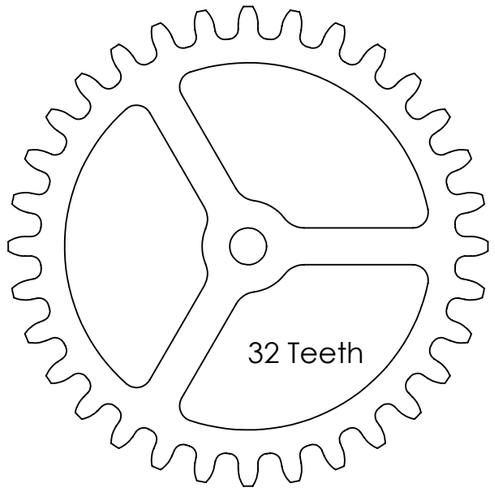
24 Teeth

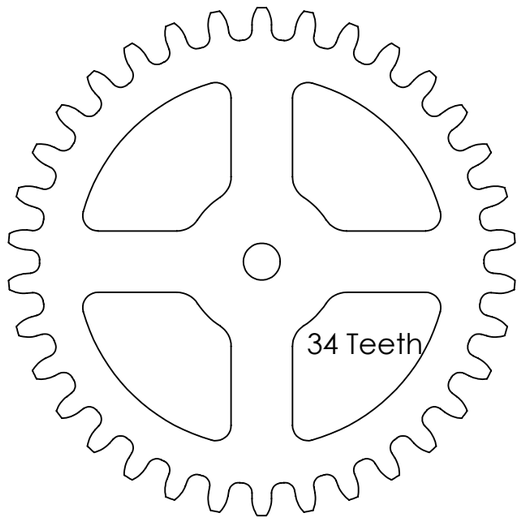


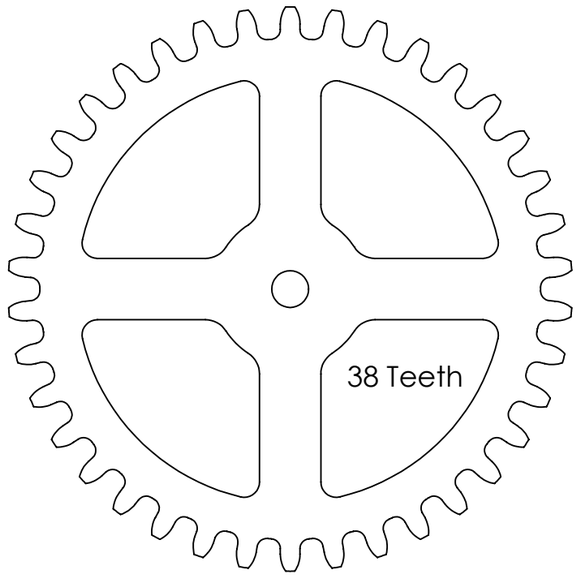
22 Teeth

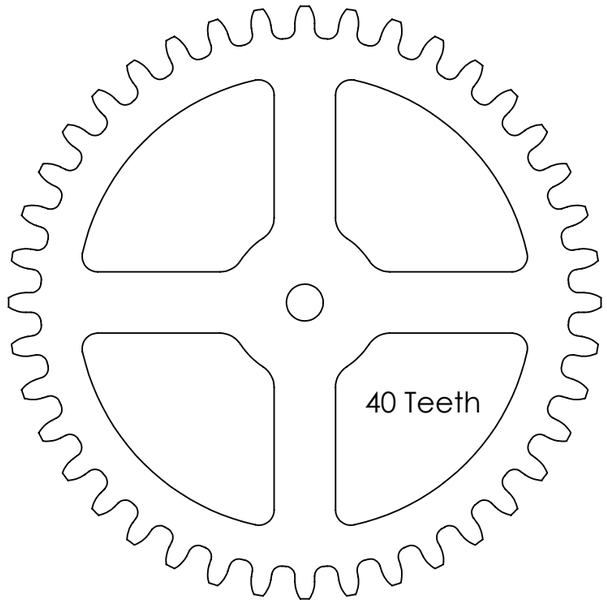


20 Teeth





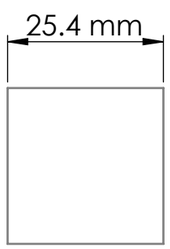


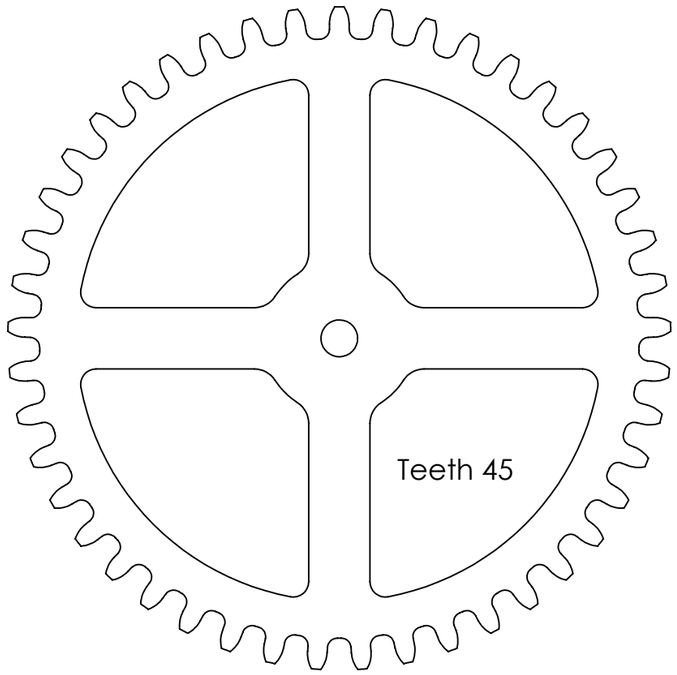


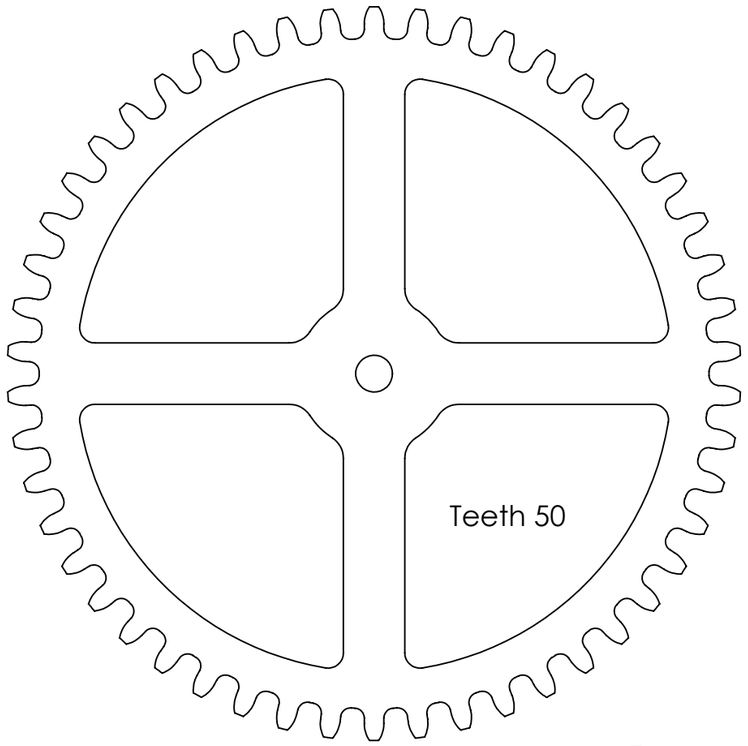
Brian Law's Woodenclocks

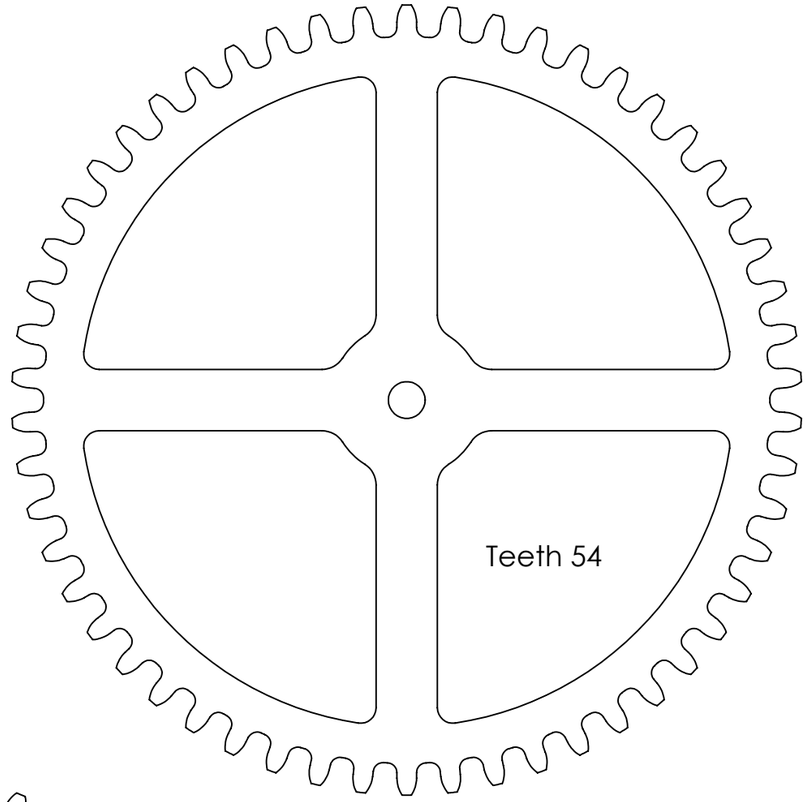
A collection of Spur Gears based on the tooth profiles used in the woodenclocks

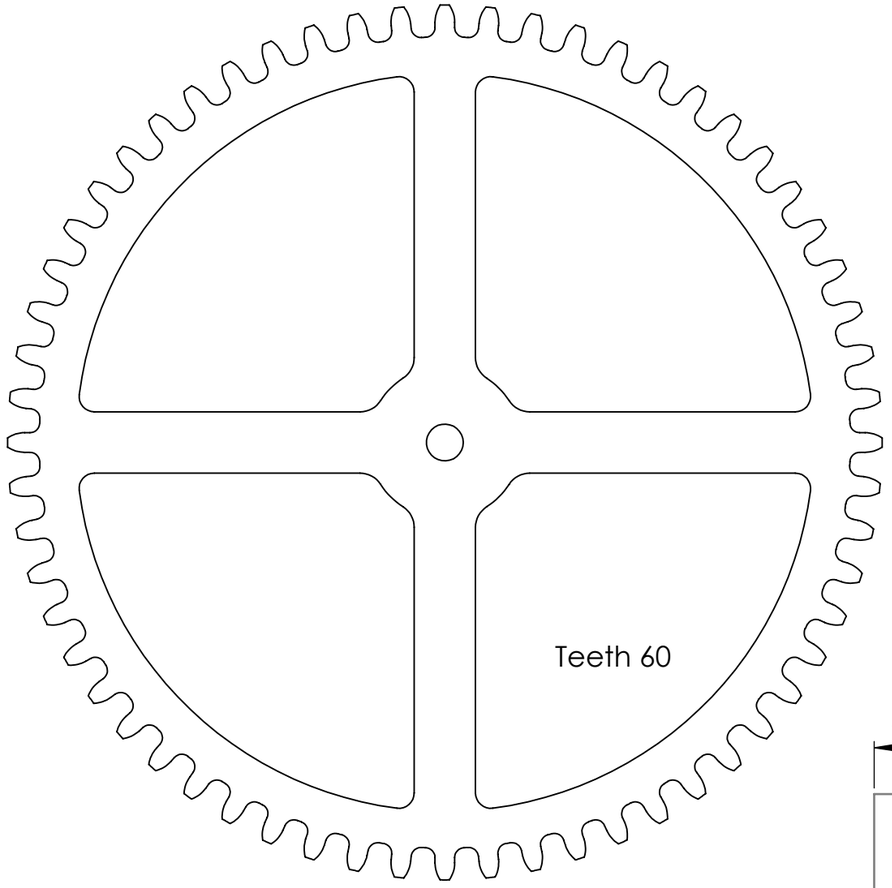
Brian Law February 2011 Sheet 2

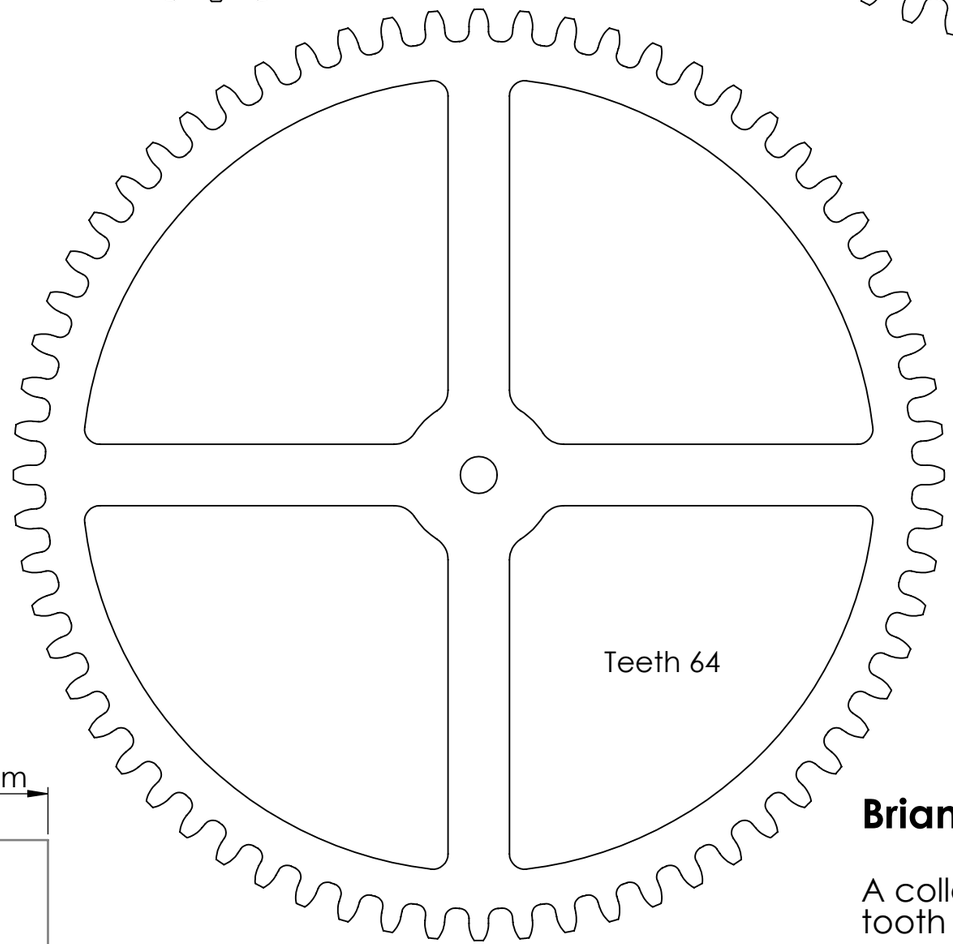


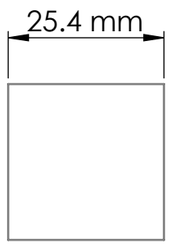








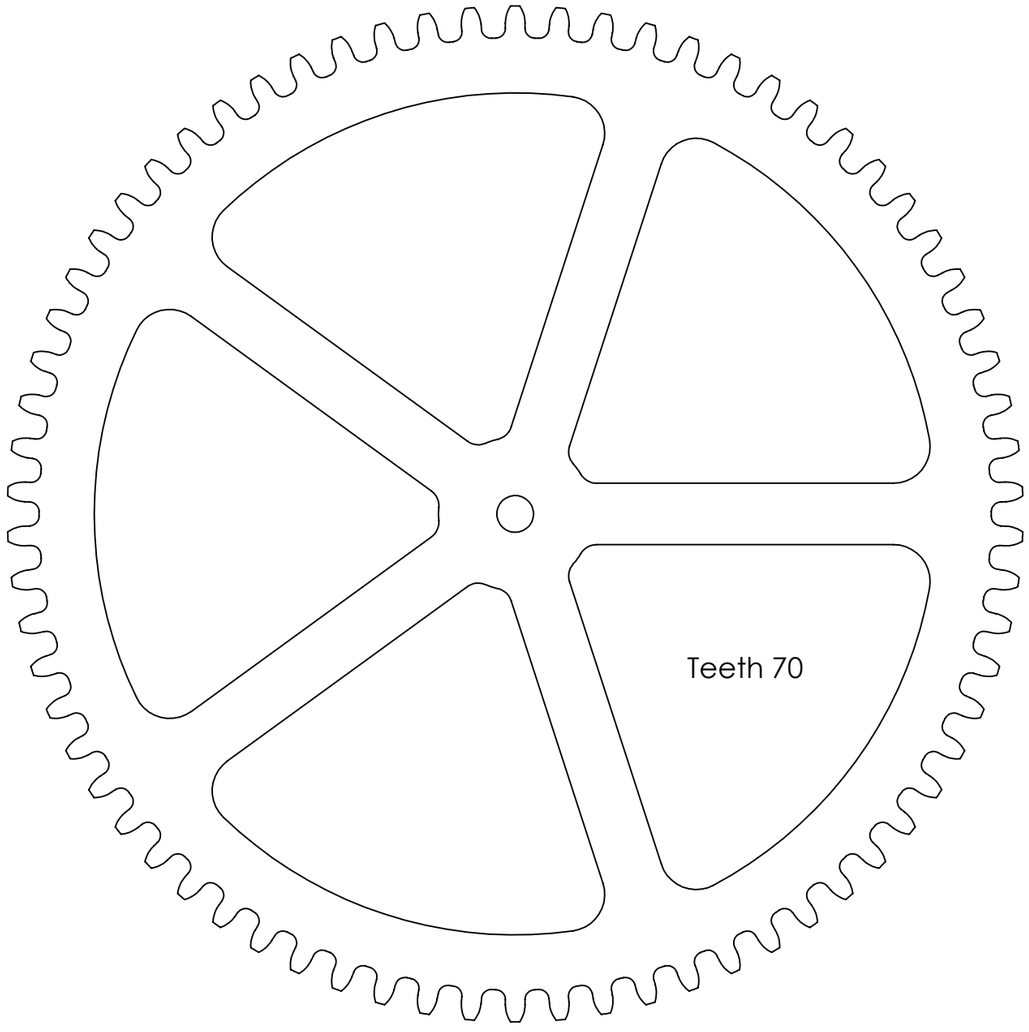


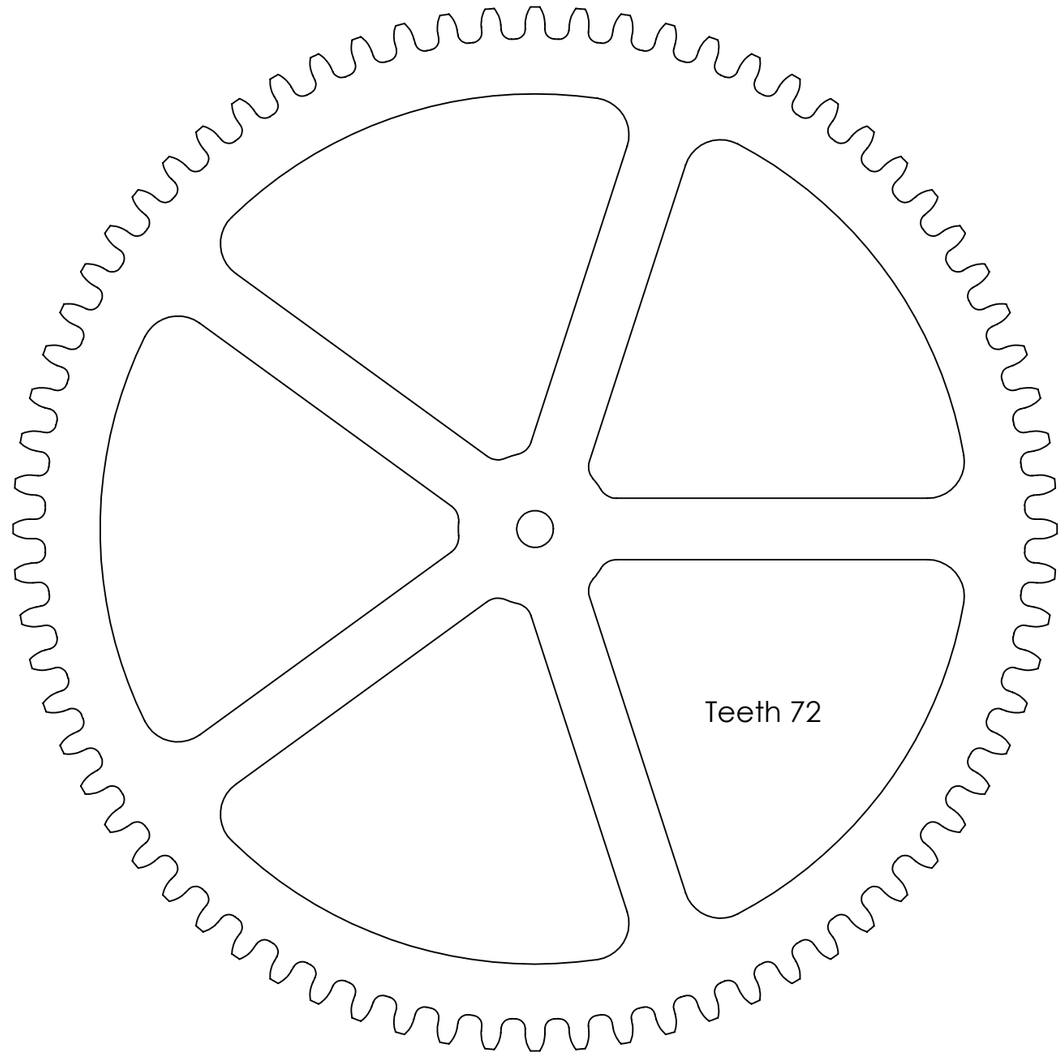


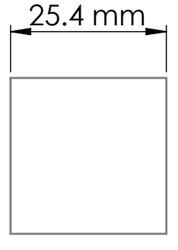
Brian Law's Woodenclocks

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

Brian Law February 2011 Sheet 3



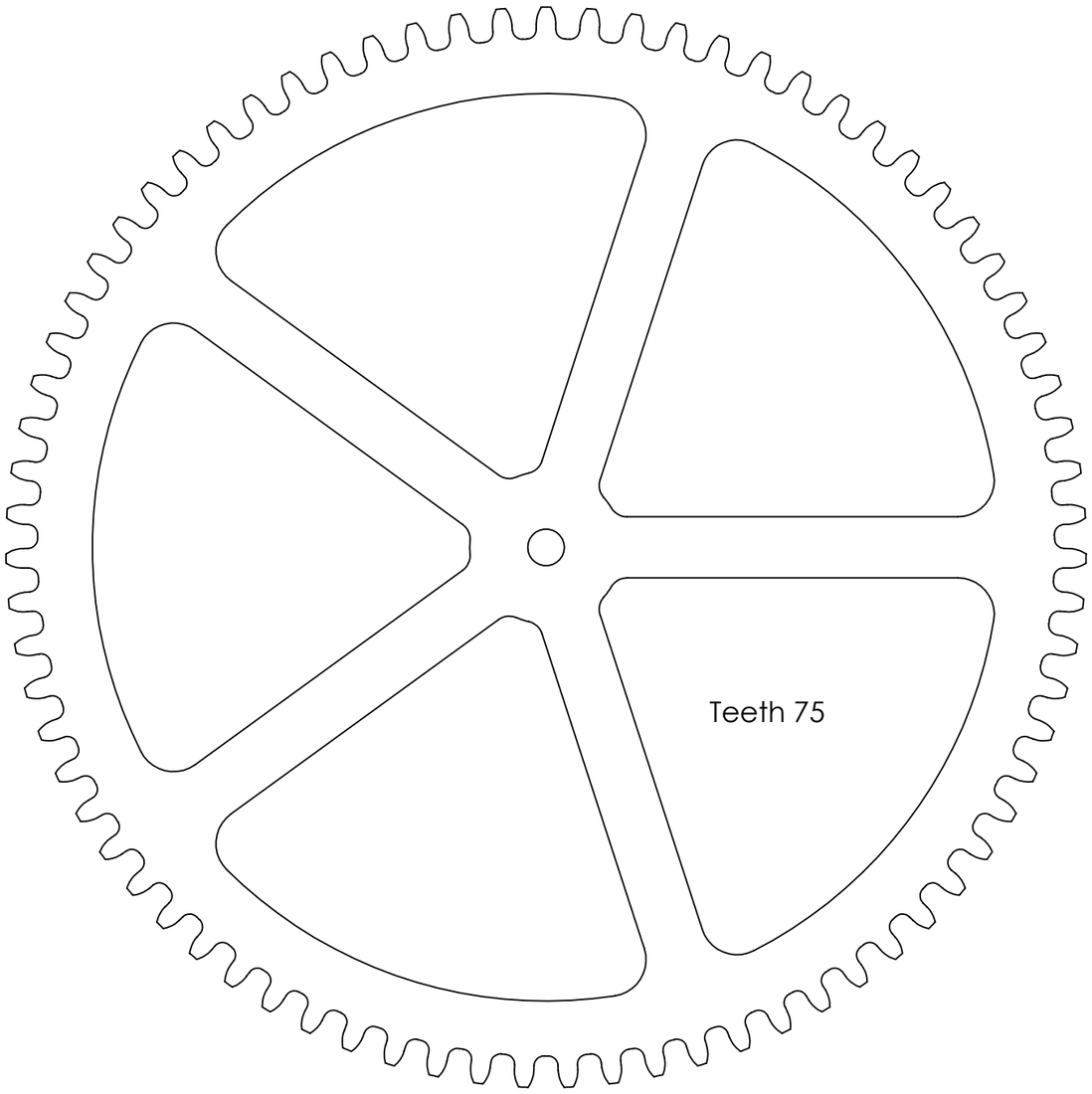


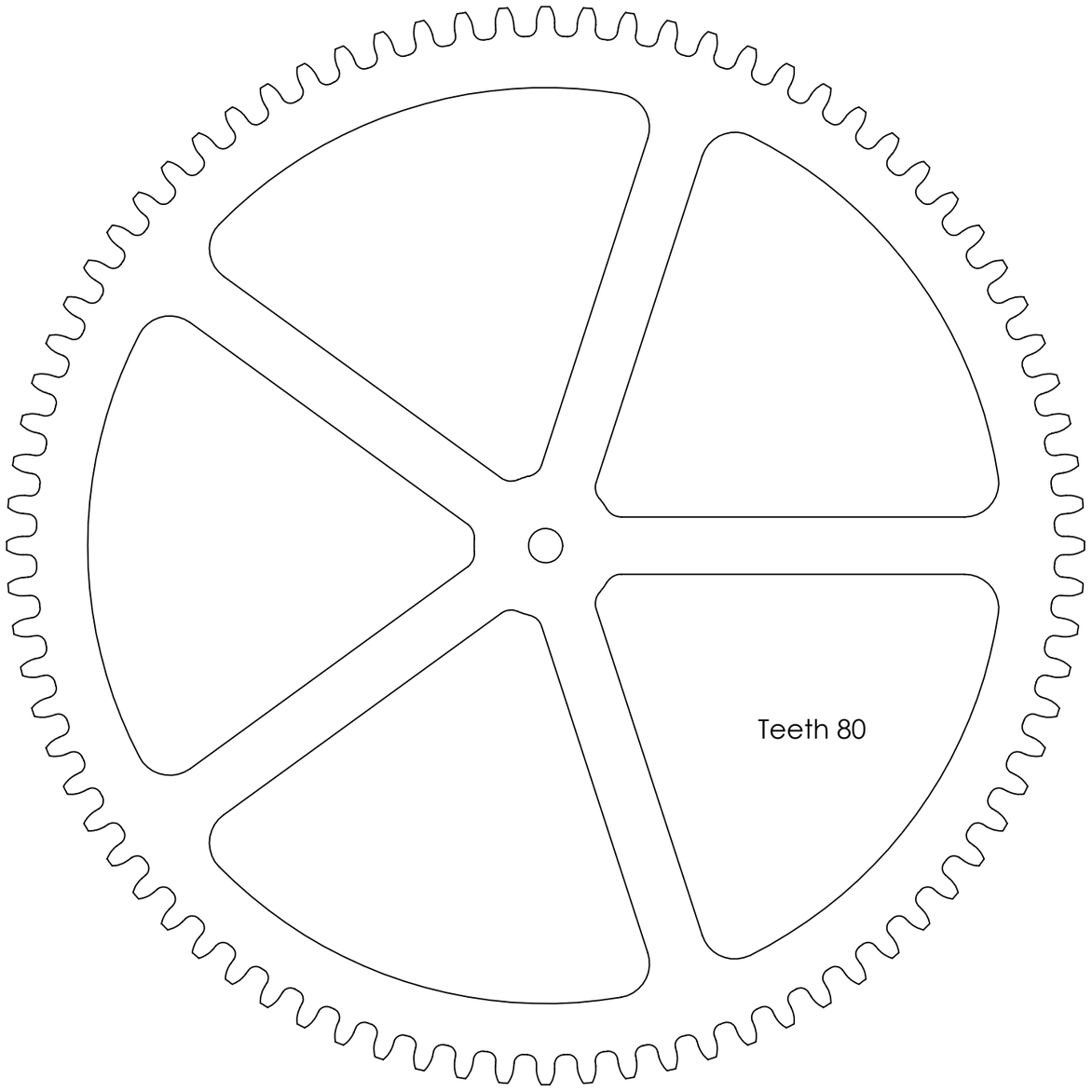


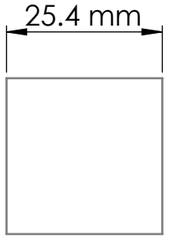
Brian Law's Woodenclocks

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

Brian Law February 2011 Sheet 4



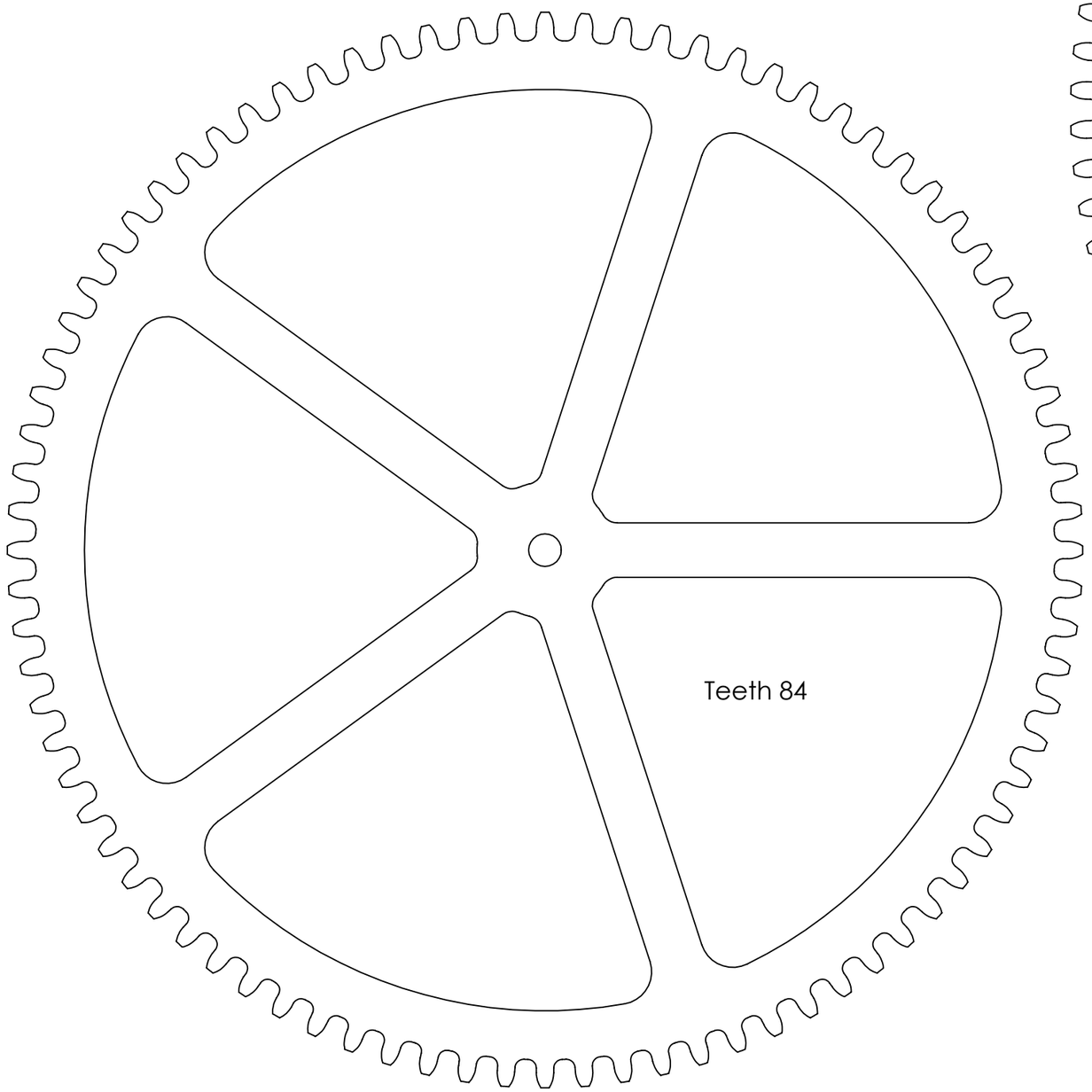


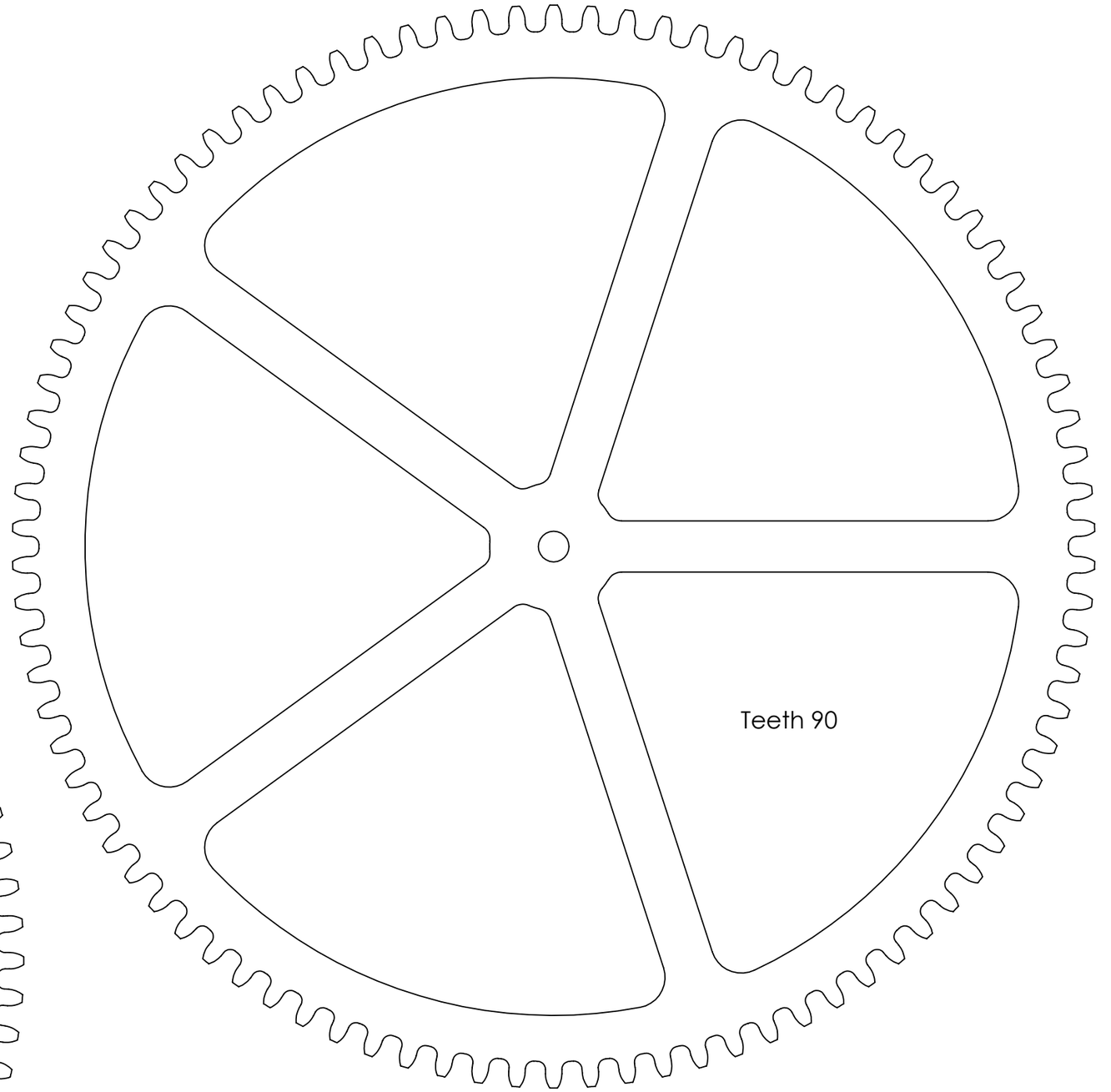


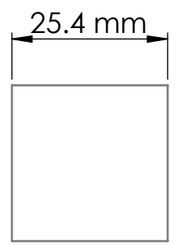
Brian Law's Woodenclocks

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

Brian Law February 2011 Sheet 5



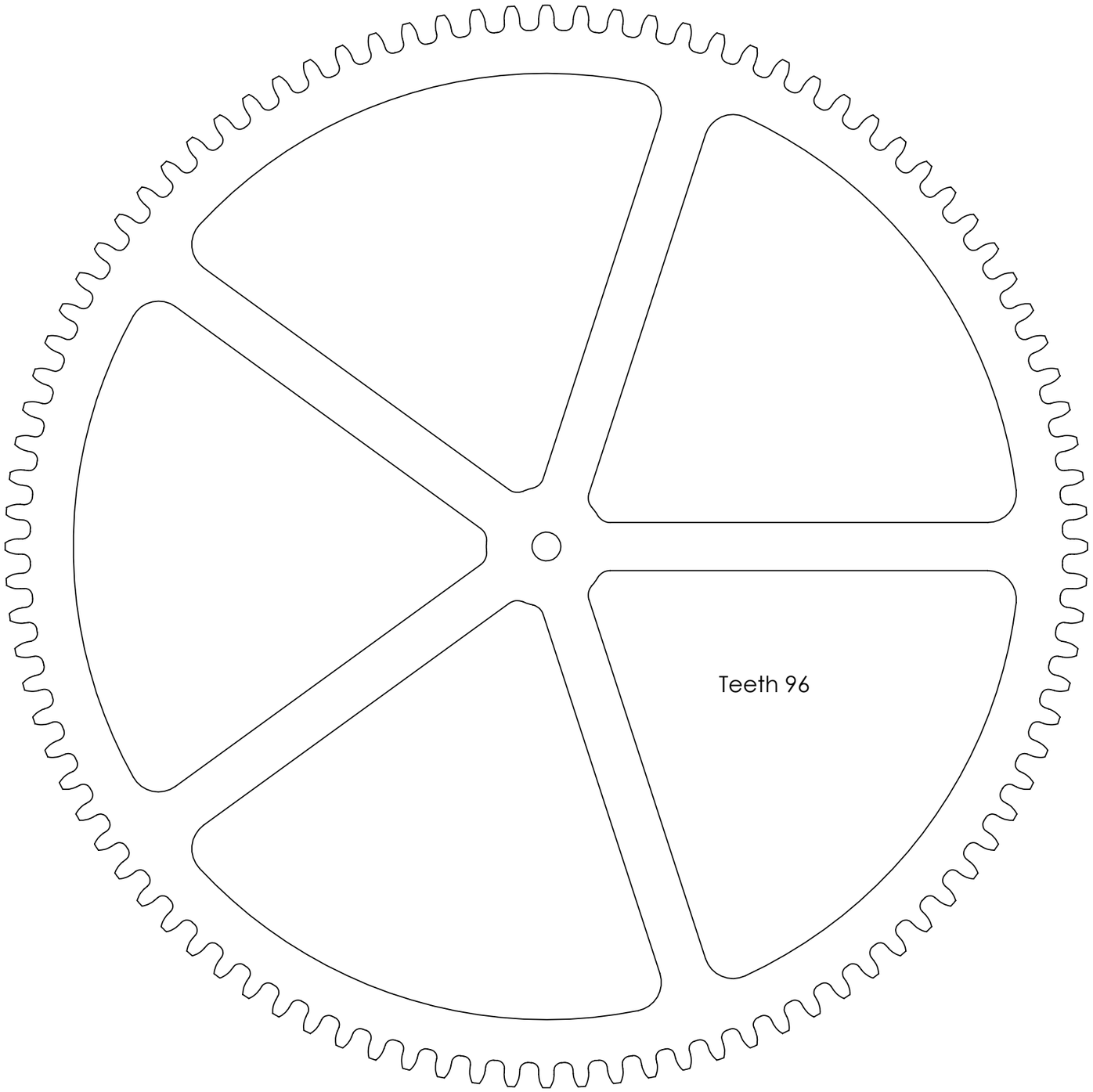




Brian Law's Woodenclocks

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

Brian Law February 2011 Sheet 6

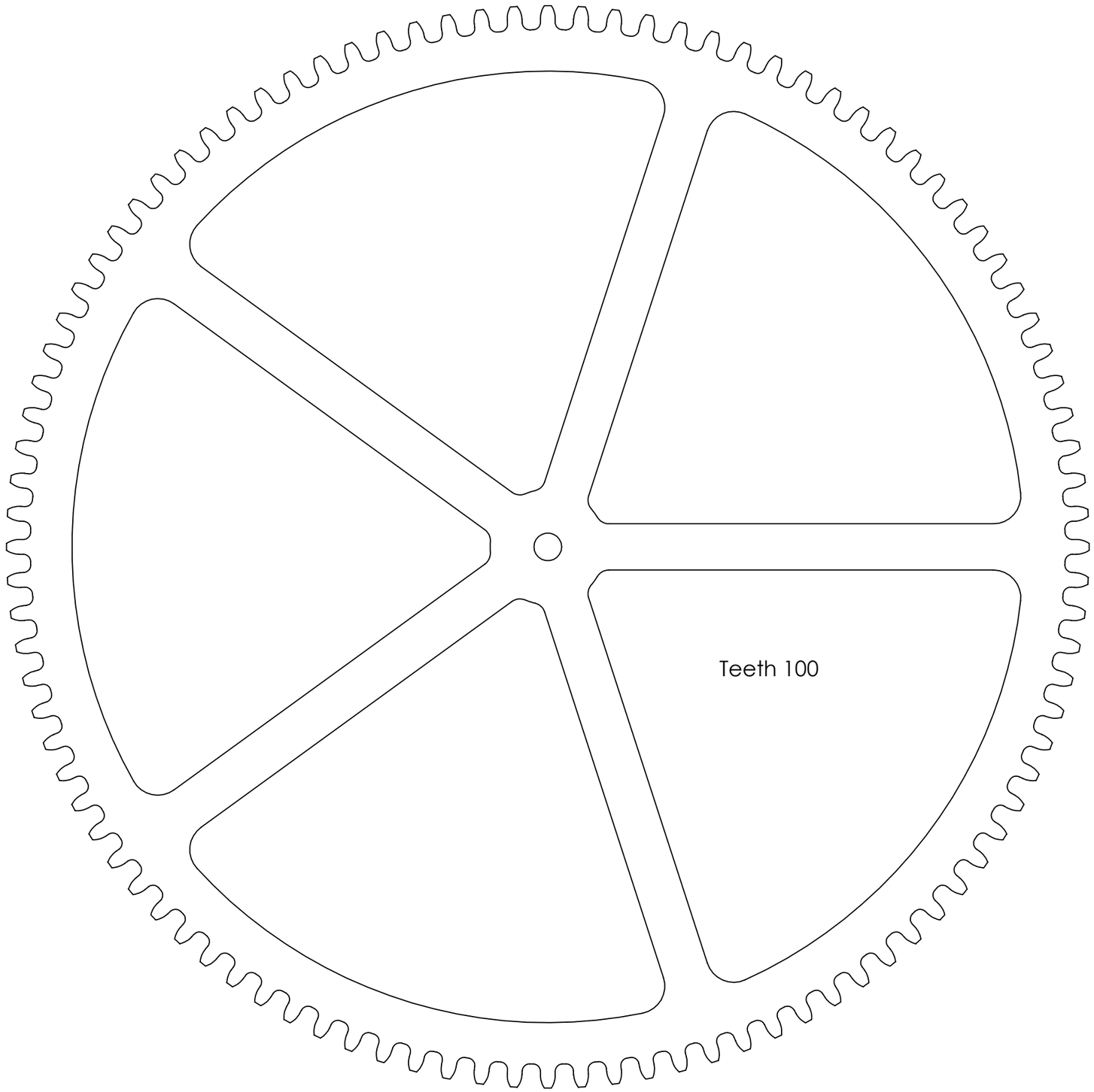


25.4 mm

Brian Law's Woodenclocks

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

Brian Law February 2011 Sheet 7



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 8