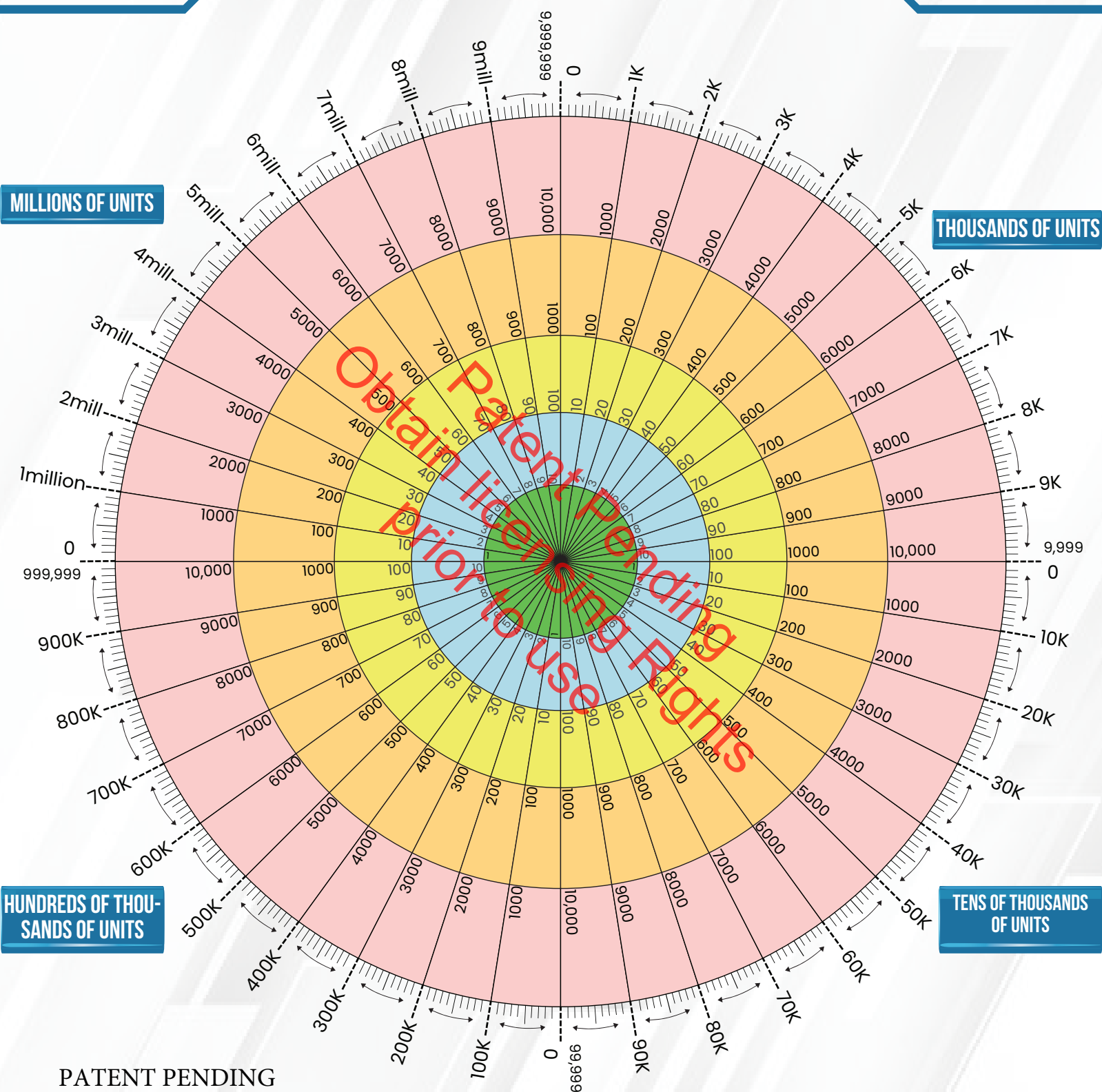


# QQ CHART



PATENT PENDING

## 5 PROBABILITY REGIONS

P5	P4	P3	P2	P1
Red	Orange	Yellow	Blue	Green

## Qualitative and Quantitative representation of the P values

Thousands of units per year (Quadrant 1)					
Probability/ Likelihood of Occurrence of Failure					
Score	Term	Description	(Scientific Notation)	(Decimal)	(Percent)
5	Frequent	Likely to occur frequently	$\geq 10^0$	$\geq 1$	$\geq 100\%$
4	Probable	Likely to occur several times	$<10^0$ and $\geq 10^{-1}$	$< 1$ and $\geq 0.1$	$< 100\%$ and $\geq 10\%$
3	Occasional	Likely to occur sometimes	$<10^{-1}$ and $\geq 10^{-2}$	$< 0.1$ and $\geq 0.01$	$< 10\%$ and $\geq 1\%$
2	Remote	Unlikely but possible to occur	$<10^{-2}$ and $\geq 10^{-3}$	$< 0.01$ and $\geq 0.001$	$< 1\%$ and $\geq 0.1\%$
1	Improbable	Very unlikely to occur	$1x <10^{-3}$	$< 0.001$	$< 0.1\%$
Tens of thousands of units per year (Quadrant 2)					
Probability/ Likelihood of Occurrence of Failure					
Score	Term	Qualitative Probability Description	(Scientific Notation)	Quantitative Probability (Decimal)	(Percent)
5	Frequent	Likely to occur frequently	$\geq 10^{-1}$	$\geq 0.1$	$\geq 10\%$
4	Probable	Likely to occur several times	$<10^{-1}$ and $\geq 10^{-2}$	$< 0.1$ and $\geq 0.01$	$< 10\%$ and $\geq 1\%$
3	Occasional	Likely to occur sometimes	$<10^{-2}$ and $\geq 10^{-3}$	$< 0.01$ and $\geq 0.001$	$< 1\%$ and $\geq 0.1\%$
2	Remote	Unlikely but possible to occur	$<10^{-3}$ and $\geq 10^{-4}$	$< 0.001$ and $\geq 0.0001$	$< 0.1\%$ and $\geq 0.01\%$
1	Improbable	Very unlikely to occur	$1x <10^{-4}$	$< 0.0001$	$< 0.01\%$
Hundreds of thousands of units per year (Quadrant 3)					
Probability/ Likelihood of Occurrence of Failure					
Score	Term	Qualitative Probability Description	(Scientific Notation)	Quantitative Probability (Decimal)	(Percent)
5	Frequent	Likely to occur frequently	$\geq 10^{-2}$	$\geq 0.01$	$\geq 1\%$
4	Probable	Likely to occur several times	$<10^{-2}$ and $\geq 10^{-3}$	$< 0.01$ and $\geq 0.001$	$< 1\%$ and $\geq 0.1\%$
3	Occasional	Likely to occur sometimes	$<10^{-3}$ and $\geq 10^{-4}$	$< 0.001$ and $\geq 0.0001$	$< 0.1\%$ and $\geq 0.01\%$
2	Remote	Unlikely but possible to occur	$<10^{-4}$ and $\geq 10^{-5}$	$< 0.0001$ and $\geq 0.00001$	$< 0.01\%$ and $\geq 0.001\%$
1	Improbable	Very unlikely to occur	$1x <10^{-5}$	$< 0.00001$	$< 0.001\%$
Millions of units per year (Quadrant 4)					
Probability/ Likelihood of Occurrence of Failure					
Score	Term	Qualitative Probability Description	(Scientific Notation)	Quantitative Probability (Decimal)	(Percent)
5	Frequent	Likely to occur frequently	$\geq 10^{-3}$	$\geq 0.001$	$\geq 0.1\%$
4	Probable	Likely to occur several times	$<10^{-3}$ and $\geq 10^{-4}$	$< 0.001$ and $\geq 0.0001$	$< 0.1\%$ and $\geq 0.01\%$
3	Occasional	Likely to occur sometimes	$<10^{-4}$ and $\geq 10^{-5}$	$< 0.0001$ and $\geq 0.00001$	$< 0.01\%$ and $\geq 0.001\%$
2	Remote	Unlikely but possible to occur	$<10^{-5}$ and $\geq 10^{-6}$	$< 0.00001$ and $\geq 0.000001$	$< 0.001\%$ and $\geq 0.0001\%$
1	Improbable	Very unlikely to occur	$1X <10^{-6}$	$< 0.000001$	$< 0.0001\%$