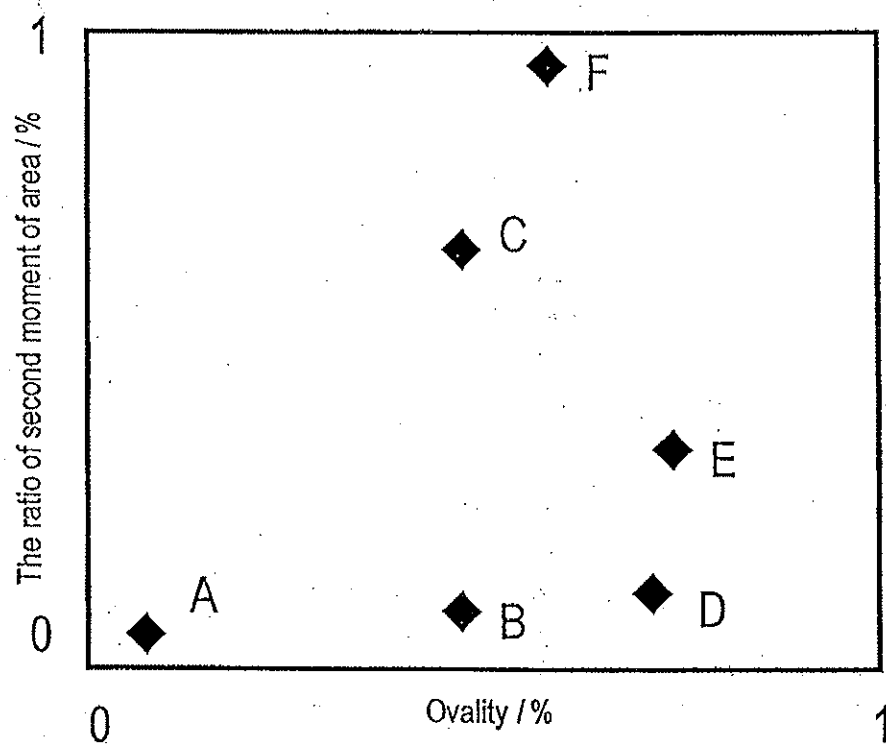


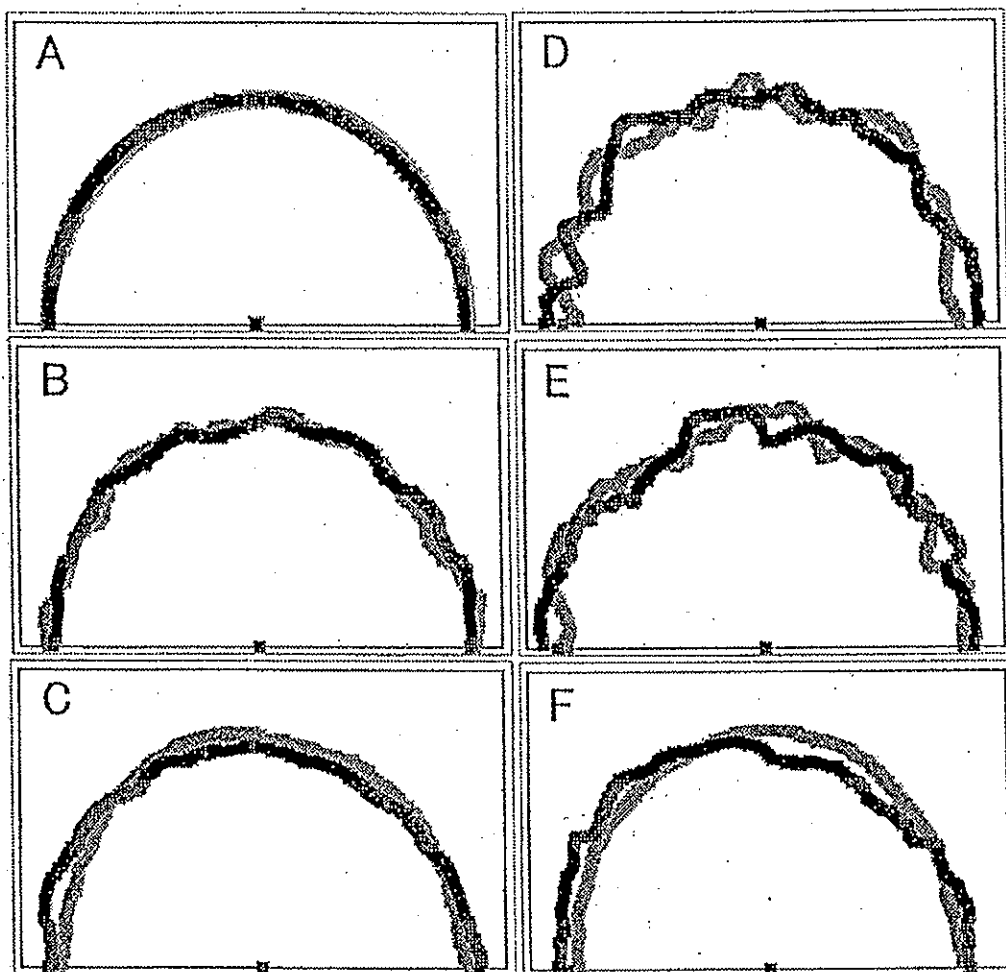
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DRAWINGS

[Fig.1]

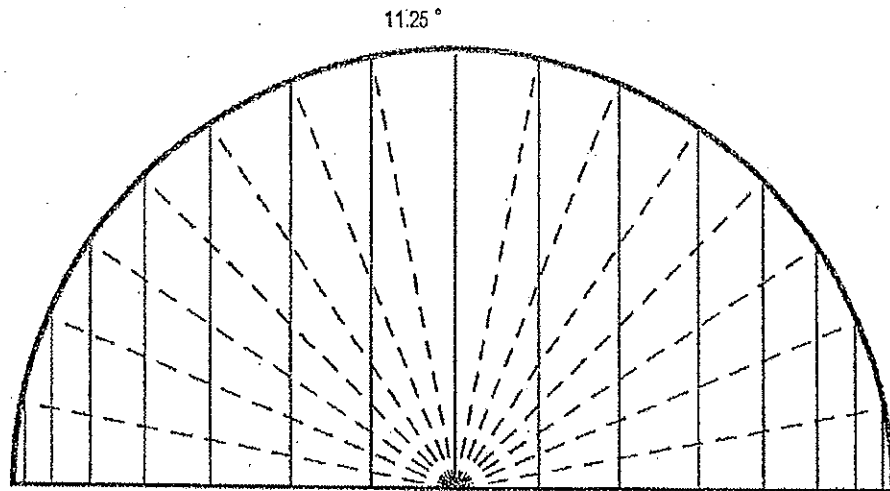


[Fig.2]



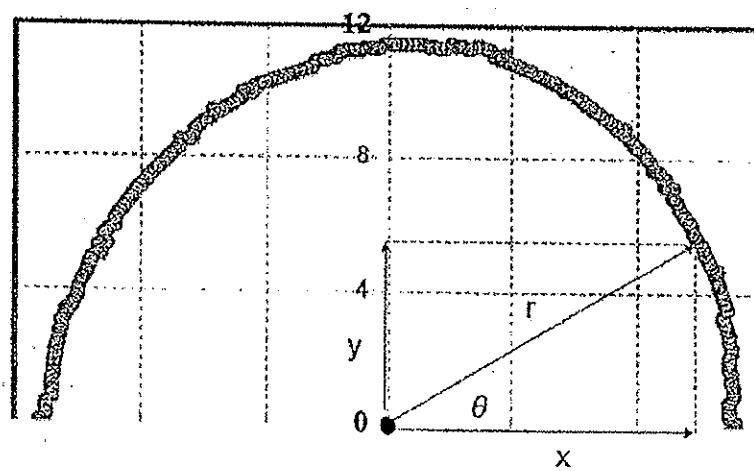
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[Fig.3]



a semi circle is divided into 16 by 11.25 degree step

[Fig.4]

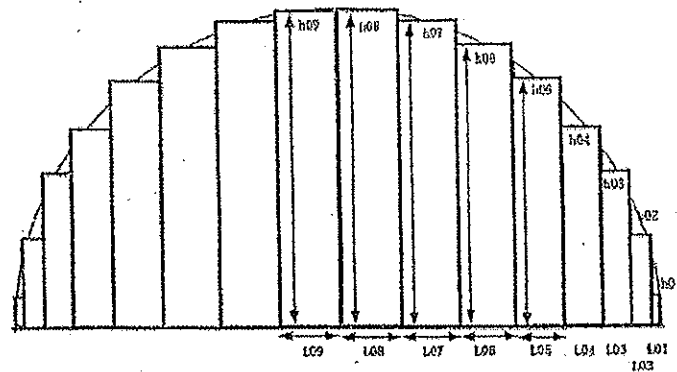


Transform into a semicircle from diameters

$$\begin{pmatrix} x=r \cos \theta \\ y=r \sin \theta \end{pmatrix}$$

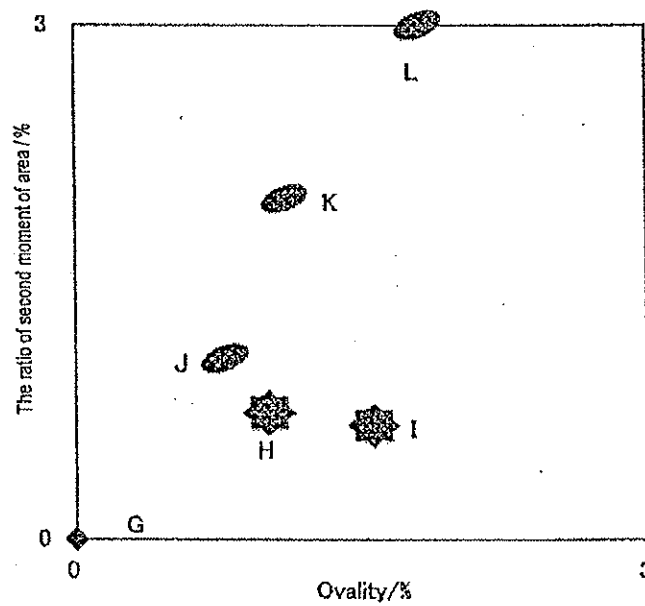
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[Fig.5]



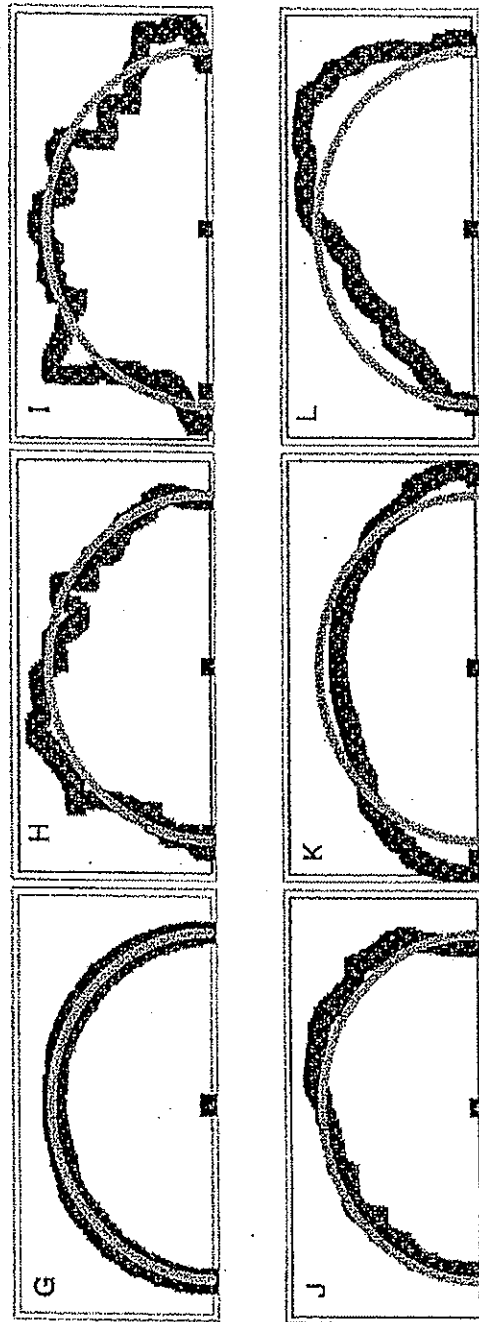
Calculate summation of approximated rectangular divided 16 segments of semi circle
second moment of area of this direction $\rightarrow$

[Fig.6]



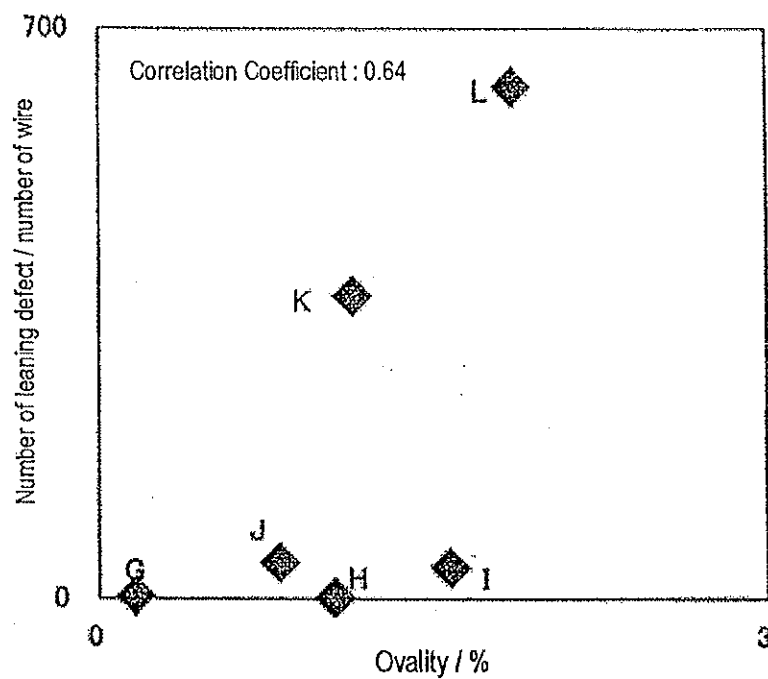
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[Fig.7]

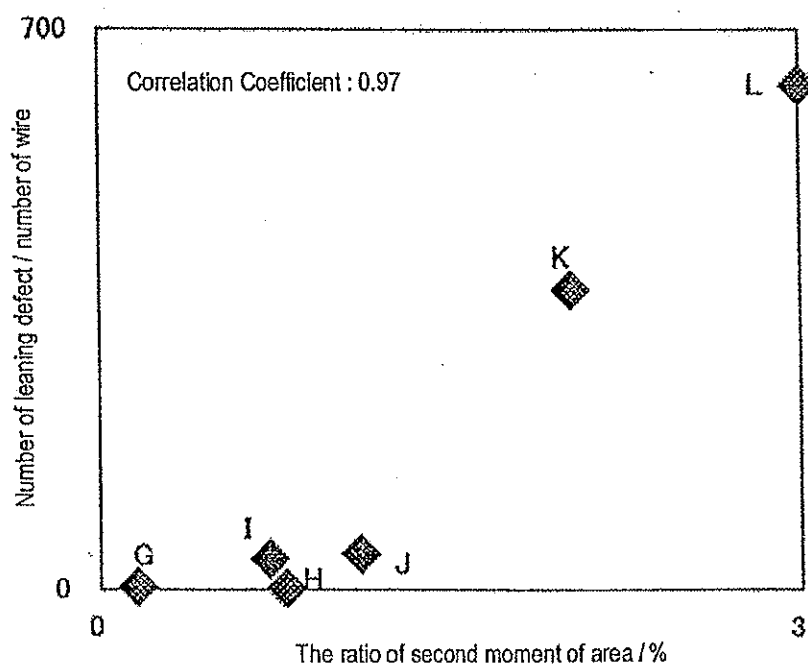


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【Fig.8】



【Fig.9】



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[Fig.10]

