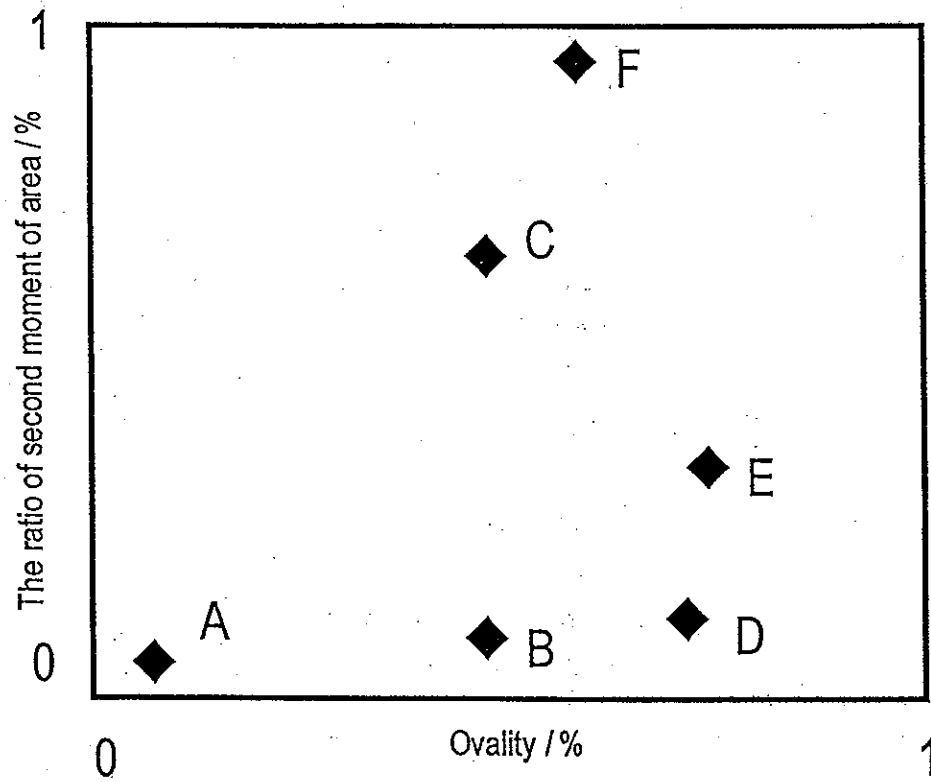
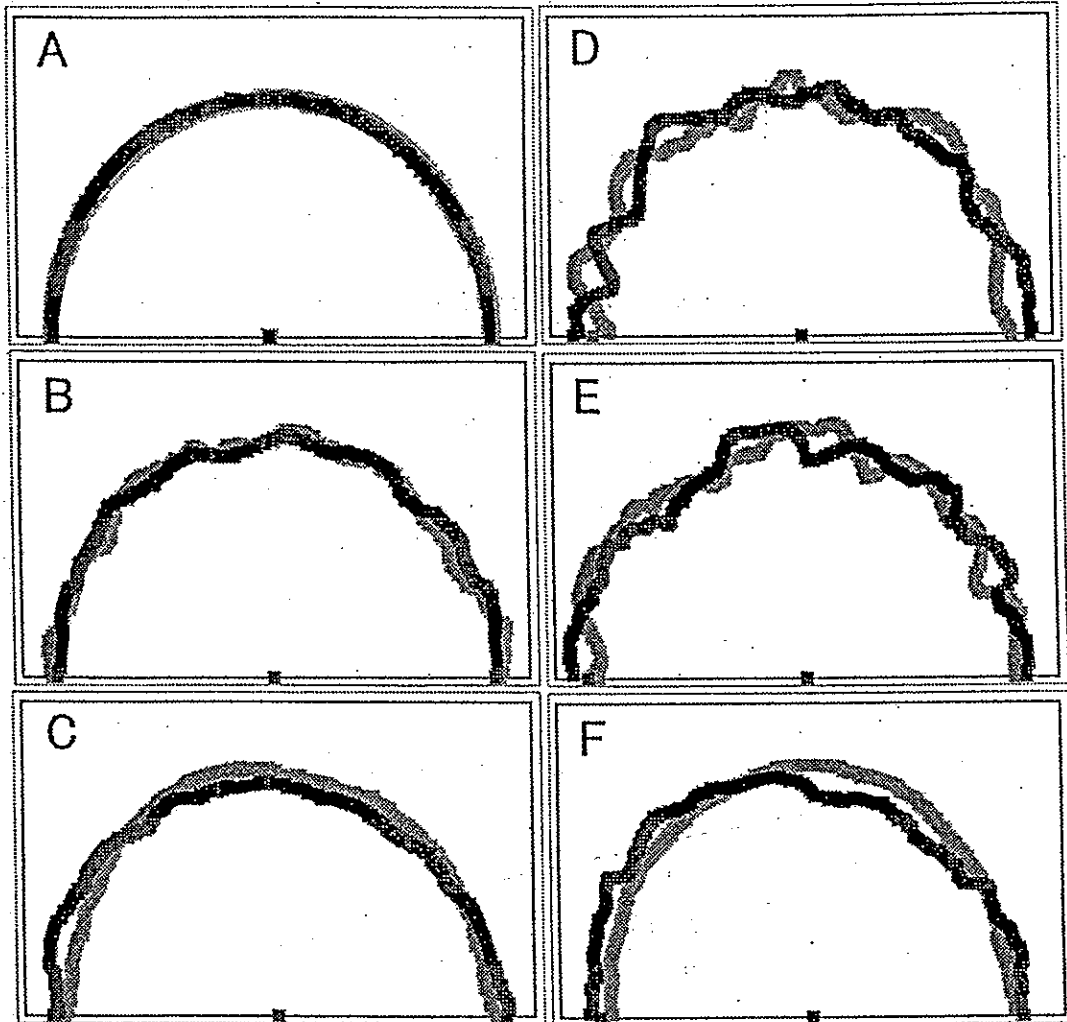


DRAWINGS

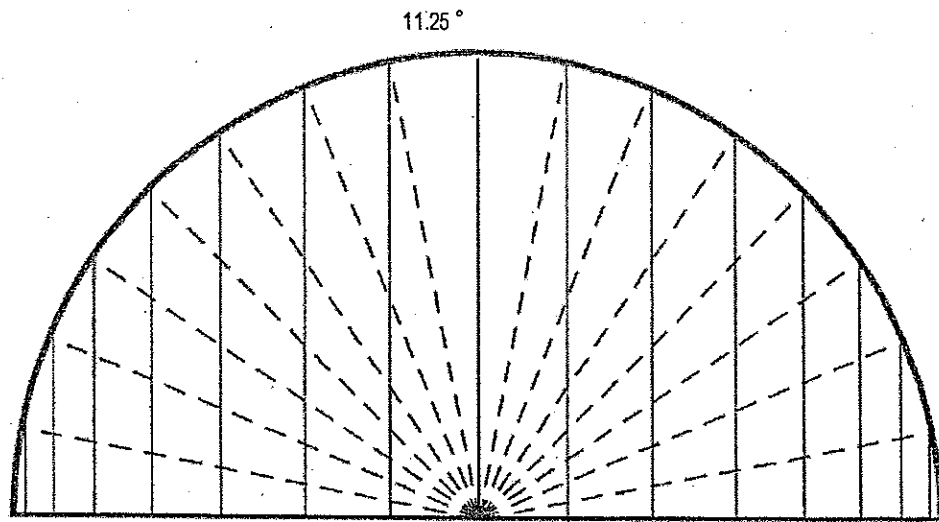
[Fig.1]



[Fig.2]

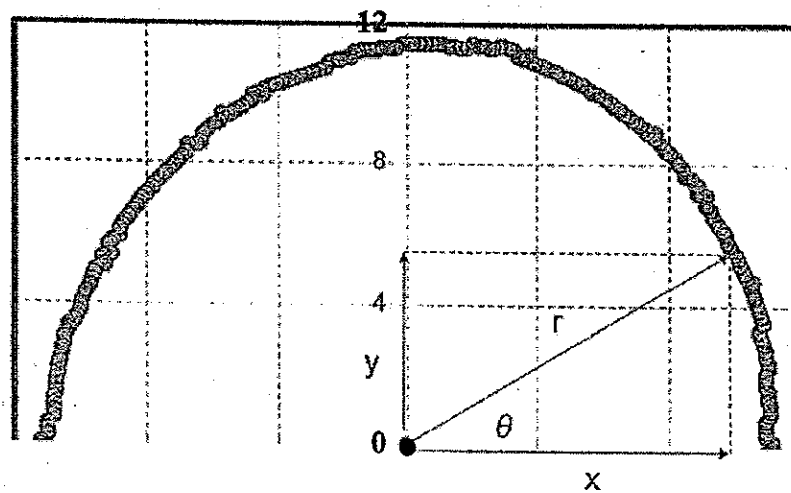


[Fig.3]



a semi circle is divided into 16 by 11.25 degree step

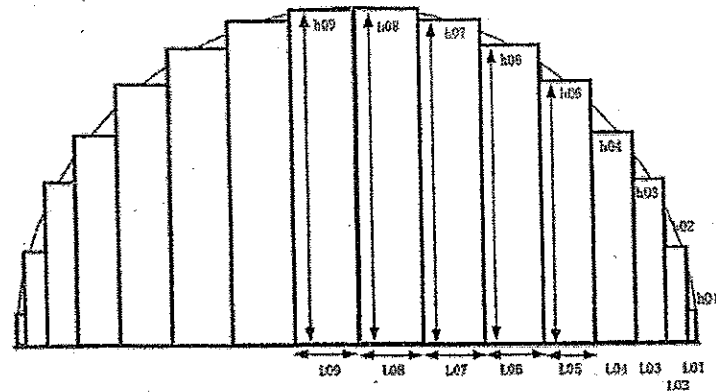
[Fig.4]



Transform into a semicircle from diameters

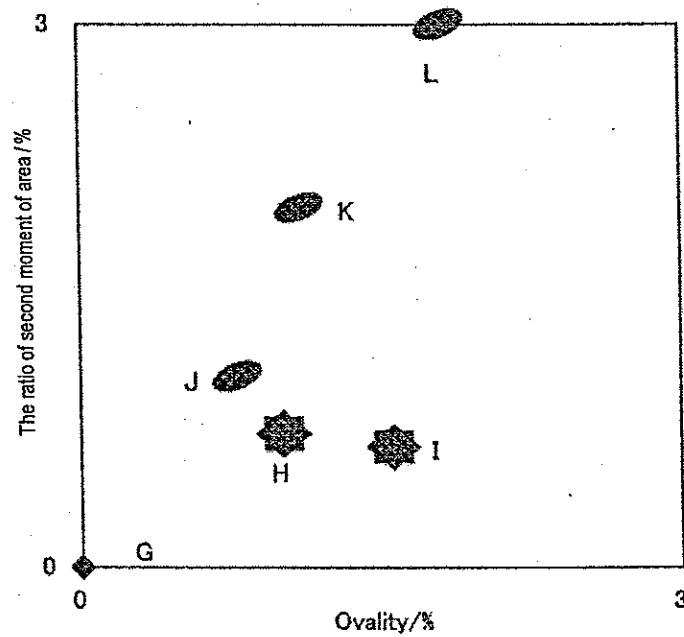
$$\begin{pmatrix} x=r \cos \theta \\ y=r \sin \theta \end{pmatrix}$$

[Fig.5]

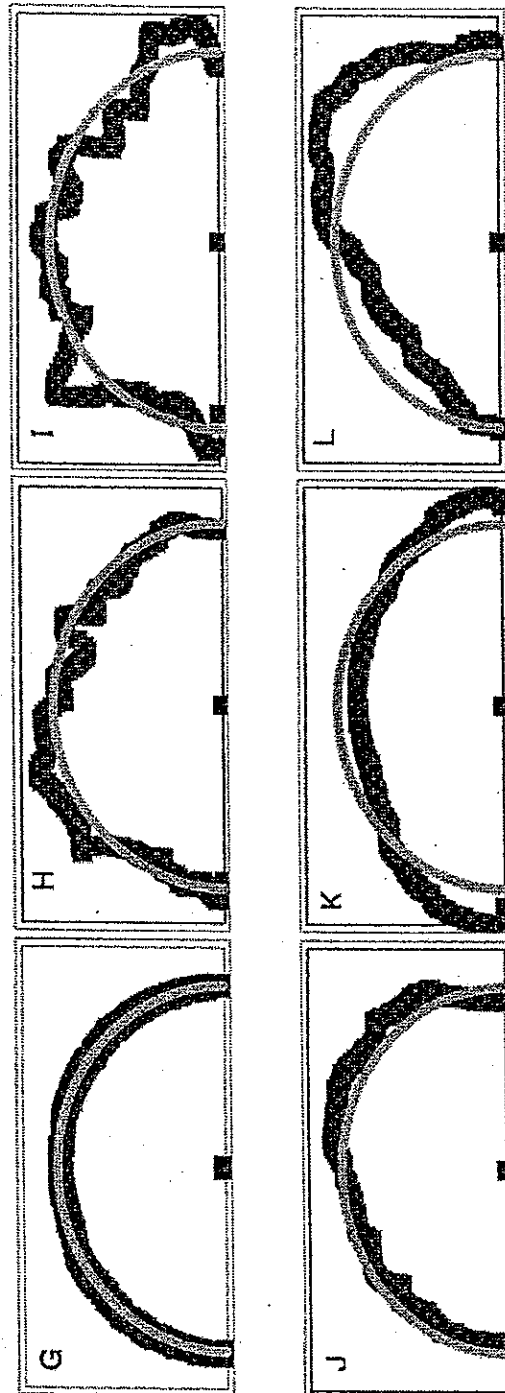


Calculate summation of approximated rectangular divided 16 segments of semi circle
second moment of area of this direction $\rightarrow$

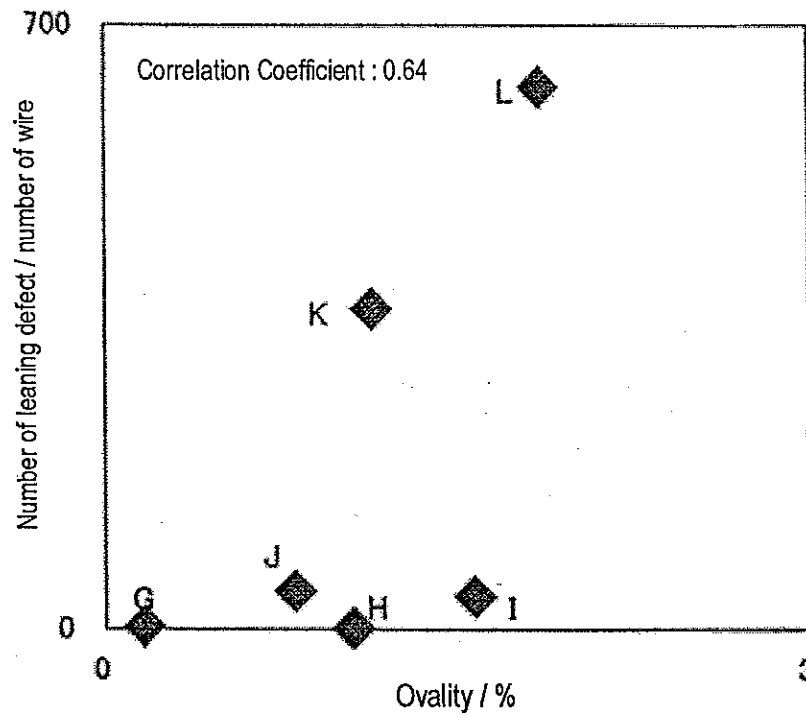
[Fig.6]



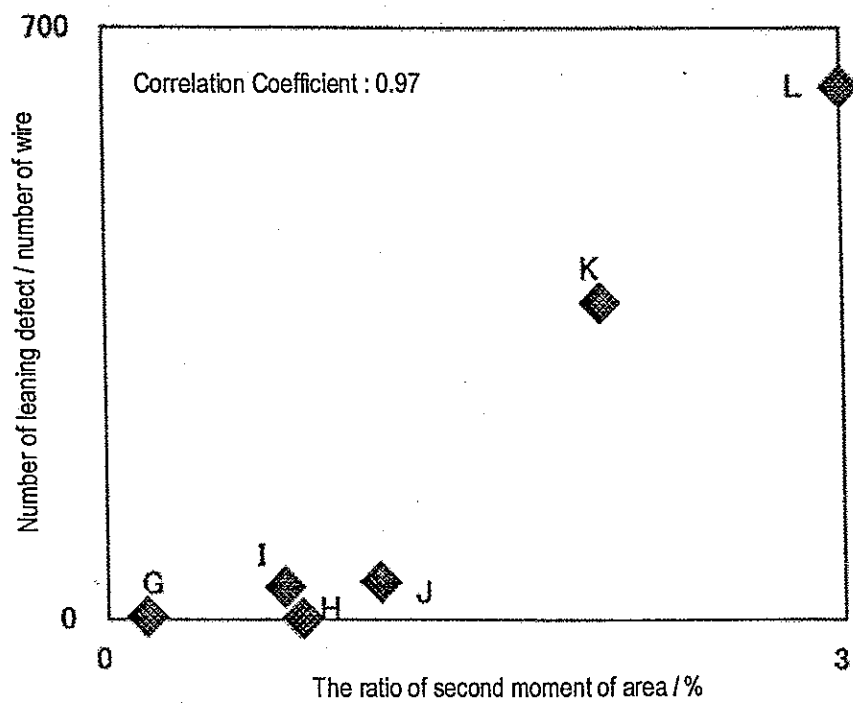
[Fig.7]



[Fig.8]



[Fig.9]



[Fig.10]

