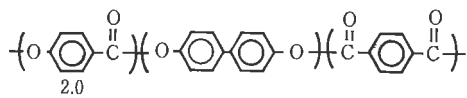


NO. 1 SATOH

Akira NAKANISHI





2.0

1.0 1.0

0.2

1.0

3.5

1.0

TPA:IPA = 0.7:0.3



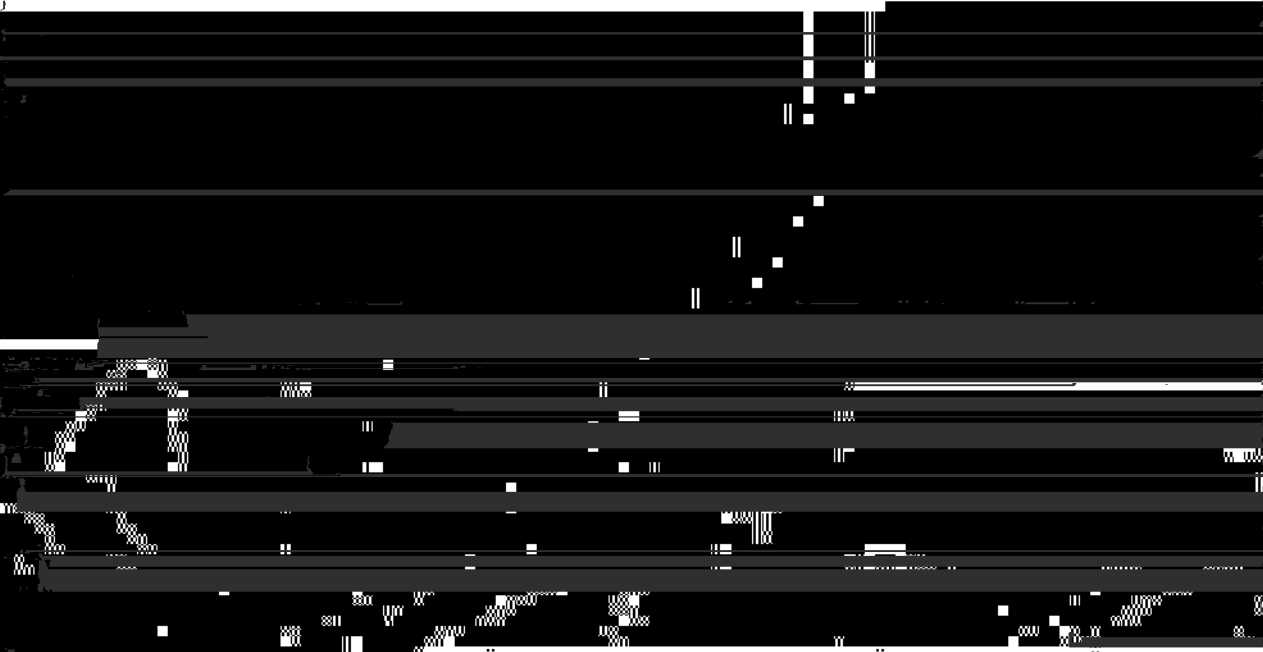
1.0 1.0

0.2

1.0

1.0

In these LCDs the geometric elements are



A 1  
A 2

12  
11

1  
2



ding units undergo rotational and vibrational motions

100 0 100 200 300

through the aromatic-ester linkage such motions

cooperative motion is observed in the

large-scale cooperative motion is first observed in the

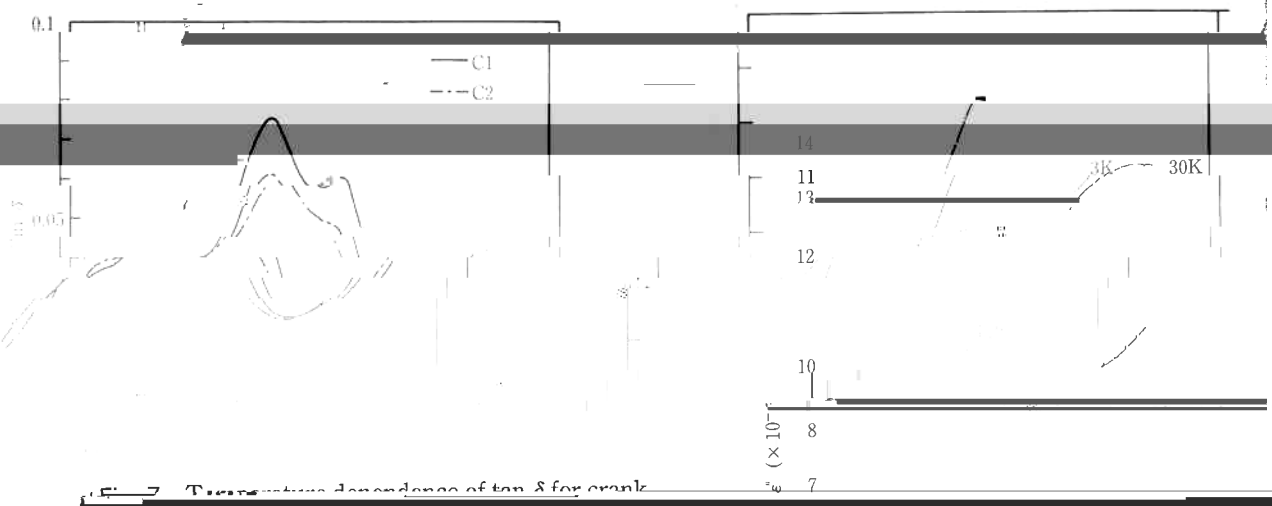
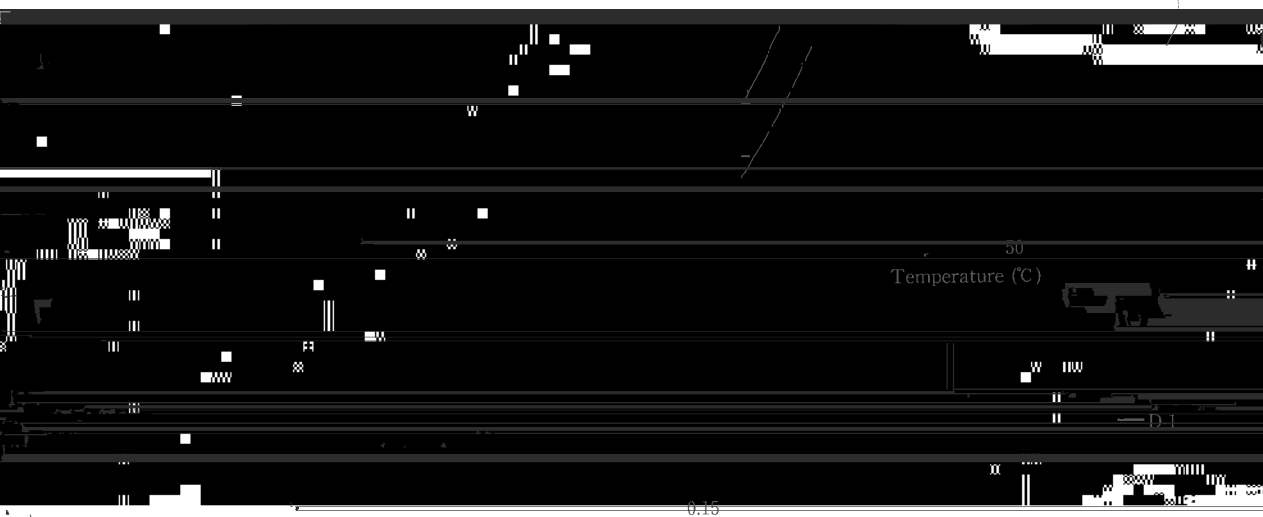


Fig. 7 Temperature dependence of  $\tan \delta$  for crank

100 0 100 200 300



50  
Temperature (°C)

0.01

0.05

0

0 100 200  
Temperature (°C)

substituted group in D-1 (nbenvl) than that in D-2. It is possible to optimize the desirable performance of the



Naoki SATOH

Akira NAKANISHI

入社 昭和62年4月1日

入社 昭和62年3月2日



第一研究室

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