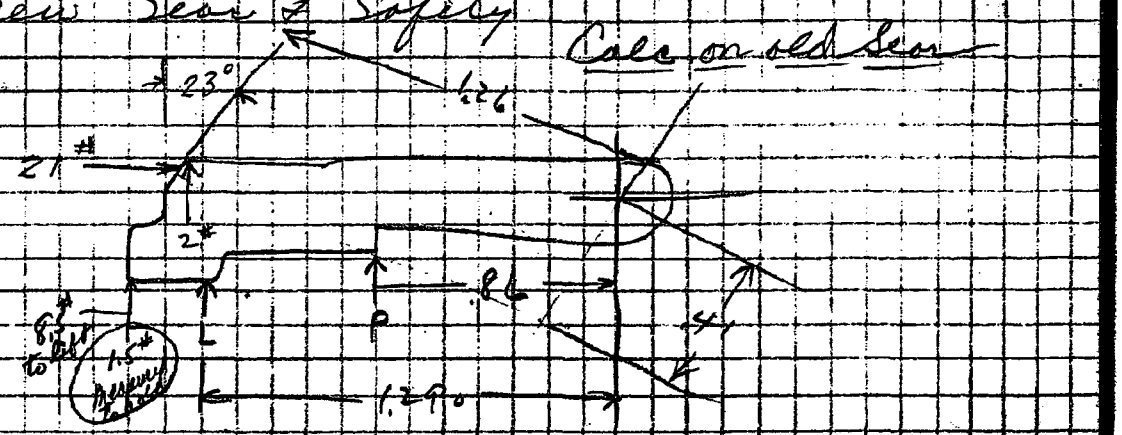
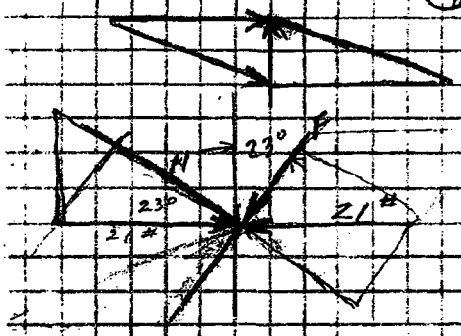
DATE 12-20-44

SUBJECT OF EXP'T. New Sear & Safety

Calc on old Sear





$\cos 23° = .920 = \frac{N}{21}$

$N = 19.3$

$F = Nf$

$= 19.3(.33)$

$= 6.4\#$

$f = .33$ in dust chamber

$f = .29$ oiled

NORMAL FORCE = $N = 21(\cos 23°) = 21(.92)$

$N = 19.3$

MOMENTS ABOUT O Neglecting f

$2(1.29) + P(.86) = 22.8(.41)$

$P(.86) = 9.35 - 2.58$

$P = \frac{6.77}{.86} = 7.87\#$

$L = \frac{6.77}{1.29} = 5.25\#$

USING MEASURED FORCES

$1.5(1.5) = P(.86)$

$P = 2.6$

$L = 1.75$

MOMENTS TO FIND F

$1.5(1.5) + 2(1.29) + F(1.26) = 22.8(.41)$

$F(1.26) = 9.35 - 2.25 - 2.58$

$F = \frac{4.52}{1.26} = 3.62\#$

$\frac{F}{N} = f = \frac{3.62}{19.3} = .19 = 19\%$

EXPERIMENTER DATE

WITNESS DATE