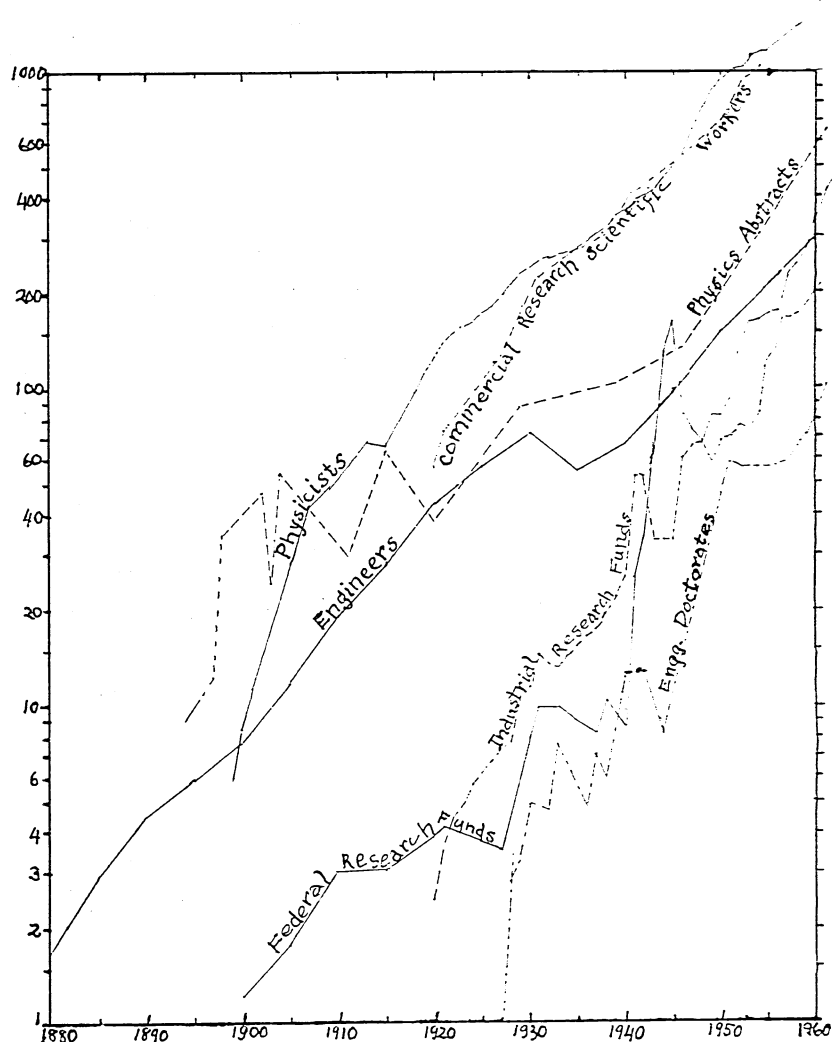


CHART 3

FURTHER INDICES OF INVENTIVE EFFORT, 1880-1960



[58] These professional-grade workers have the important assistance of a staff of lower rank—draftsmen, electricians, mechanics, translators, clerks, helpers, etc. And this helpful staff has been increasing, from 35 per 100 professionals in 1921, to 178 in 1957 including 53 technicians in 1960.⁶³ These important, growing supplements are not reflected in our graphs, and would warrant steeper slopes than drawn.

[59] Even without this growing assistance from their humbler helpers, the count of professionals in laboratories has been doubling in each decade, from 1920 to 1953, and faster recently. The rates of