

The I.Q.s of the 122 twin pairs were found to be normally distributed, with a mean of 96.82 and a standard deviation of 14.16. The mean absolute difference between the identical twins reared apart was 6.50 I.Q. points for the entire sample, with the largest difference being 24 I.Q. points. Dr Jensen calculated the overall intraclass correlation between twins to be .824, which he interpreted "as an upperbound estimate of the heritability ( $h^2$ ) of I.Q. in the English, Danish and North American Caucasian populations sampled in these studies." Jensen further compared the difference between monozygotic twins reared together with the difference between monozygotic twins reared apart and concluded that "most of the small twin difference in I.Q. may be attributable to prenatal intrauterine factors rather than to later effects of the individual's social-psychological environment."

DONALD A. SWAN

## SUPPLEMENT TO THE SOCIOLOGY OF INVENTION

By S. Colum Gilfillan. San Francisco Press, Inc., San Francisco, 1971. Pp. 229. Price \$9.00.

When M.I.T. (Massachusetts Institute of Technology) Press decided to reissue S. Colum Gilfillan's *The Sociology of Invention* (1935) in 1970 they declined to publish the additional material which the author has now incorporated in the short book under review. The reason for this refusal, an extraordinary one when one considers that Gilfillan's work is unique, was doubtless that it contains facts which the egalitarian American university establishment finds unpalatable.

The present volume incorporates Dr Gilfillan's article "Some Racial Comparisons of Inventiveness," which appeared in *THE MANKIND QUARTERLY*, Vol. IX, No. 3, January-March 1969. In these pages he calls attention to the pre-eminence of north-west European nations, mostly predominantly Nordic, in inventions and to the outstanding rôle of such recipient countries of the victims of religious persecution as Holland and Switzerland. Gilfillan attributes the superior performance of the Scandinavian countries to their comparatively brief exposure to the baneful influence of clerical celibacy. In discussing Negro lack of inventiveness, he observes that the handful of American Negroes who rank as inventors were largely white. He correlates Negro shortfall in this field with defective comprehension of third dimensionality and spatial relationships (Travis Osborne). That primitive and isolated peoples are not necessarily non-inventive is shown by the amazing technological creativity of the Eskimos. Dr Gilfillan takes up a suggestion I made several years ago in *THE MANKIND QUARTERLY* that this may be due in part to massive cosmic radiation, causing an excess of genetic mutation.

The inventor is, of course, intelligent, but not necessarily of very high I.Q., Gilfillan concludes. He tends to be a "loner," a non-conformist, the sort of student who wrestles with a few challenging ideas rather than the type who absorbs and commits to memory all that comes his way. Few women are inventors. Inventors are more likely to be bald than the average for their age and race, Dr Gilfillan asserts, a possible correlate with more-than-average masculinity. The son-daughter ratio of a sample of top American inventors is 46/42, which Gilfillan believes is also indicative of masculinity.

NATHANIEL WEYL

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