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SOME APPLICATIONS OF FRACTIONAL CALCULUS OPERATORS TO A CERTAIN SUBCLASS OF ANALYTIC FUNCTIONS WITH NEGATIVE COEFFICIENTS

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**Abstract:** The object of the present paper is to prove various distortion theorems for the fractional calculus of functions in the class $T_n\left(\bullet,\alpha\right)$ consisting of analytic and univalent functions with negative coefficients. Furthermore, a distortion theorem for a fractional integral operator of functions in the class $T_n\left(\bullet,\alpha\right)$ is shown.