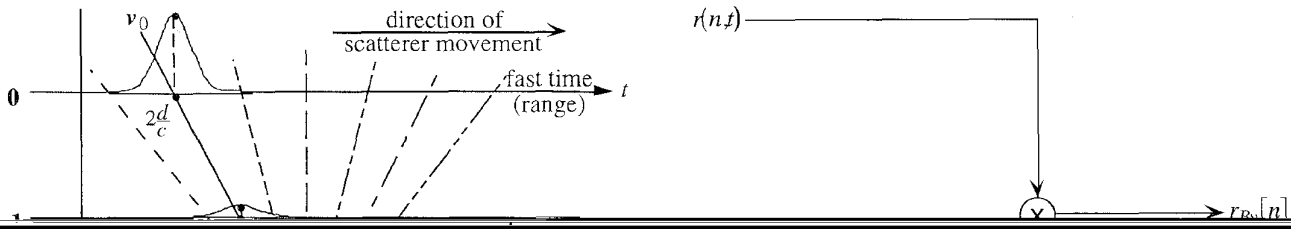
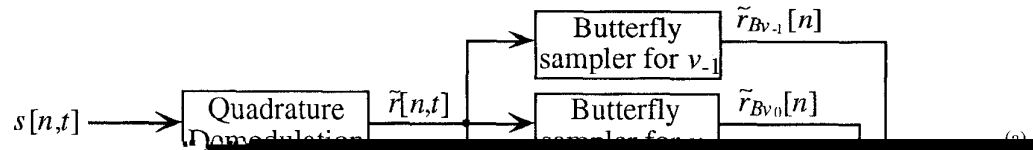


Reduction of Computational Complexity in the Butterfly Search Technique

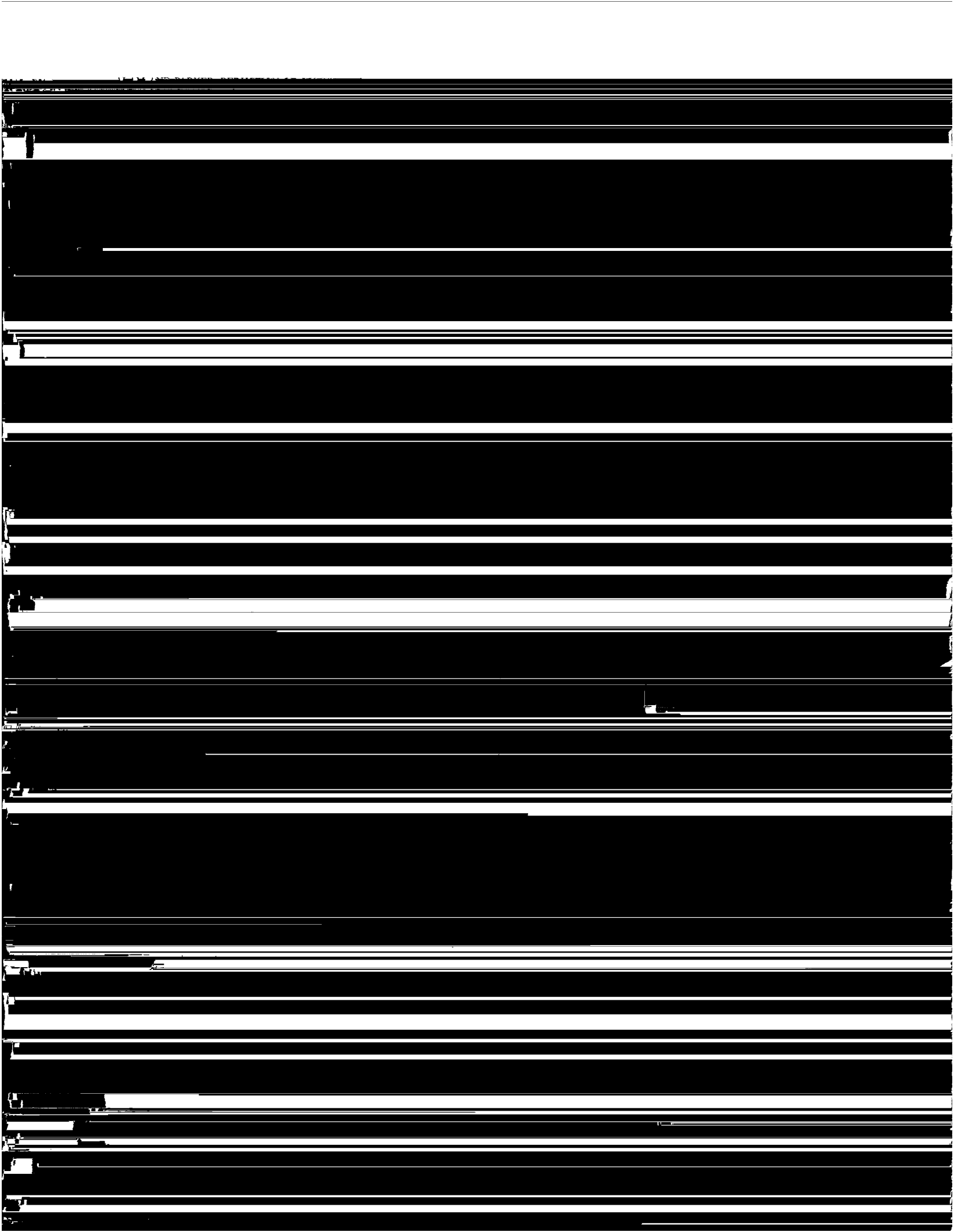




2) *Premultiplication by Complex Exponential*: The simplification in $L(w)$ can be done by rewriting both its numerator and denominator in the premultiplied butterfly search method. In this new

Thus, the correspondence detector is greatly simplified

in the premultiplied butterfly search method. In this new



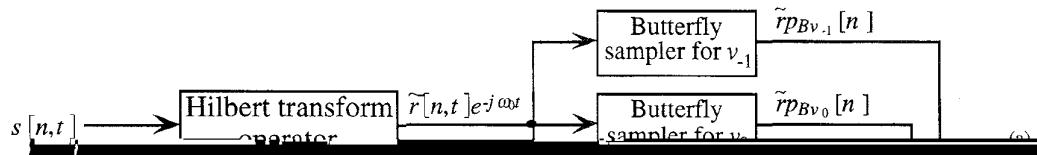
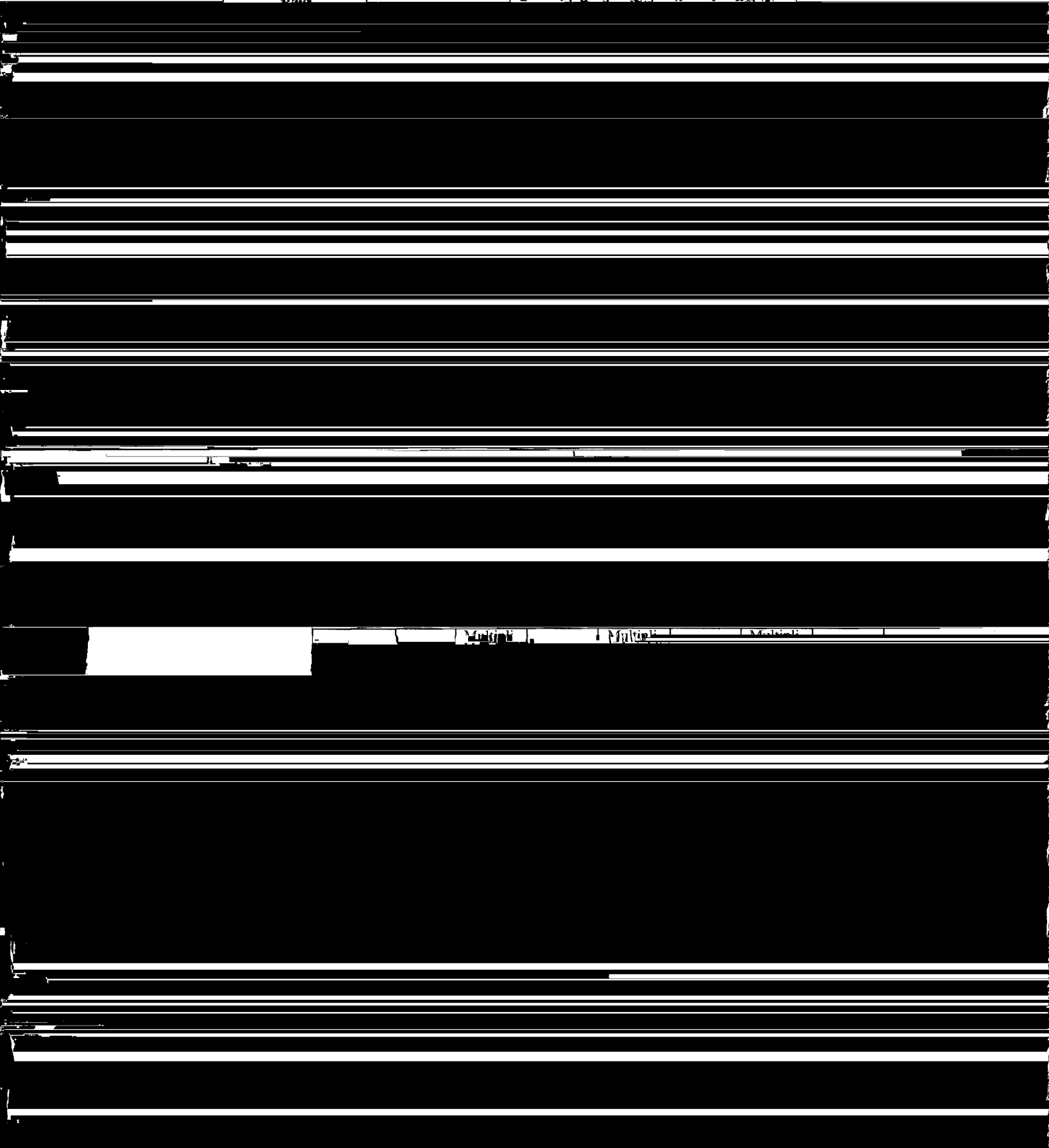


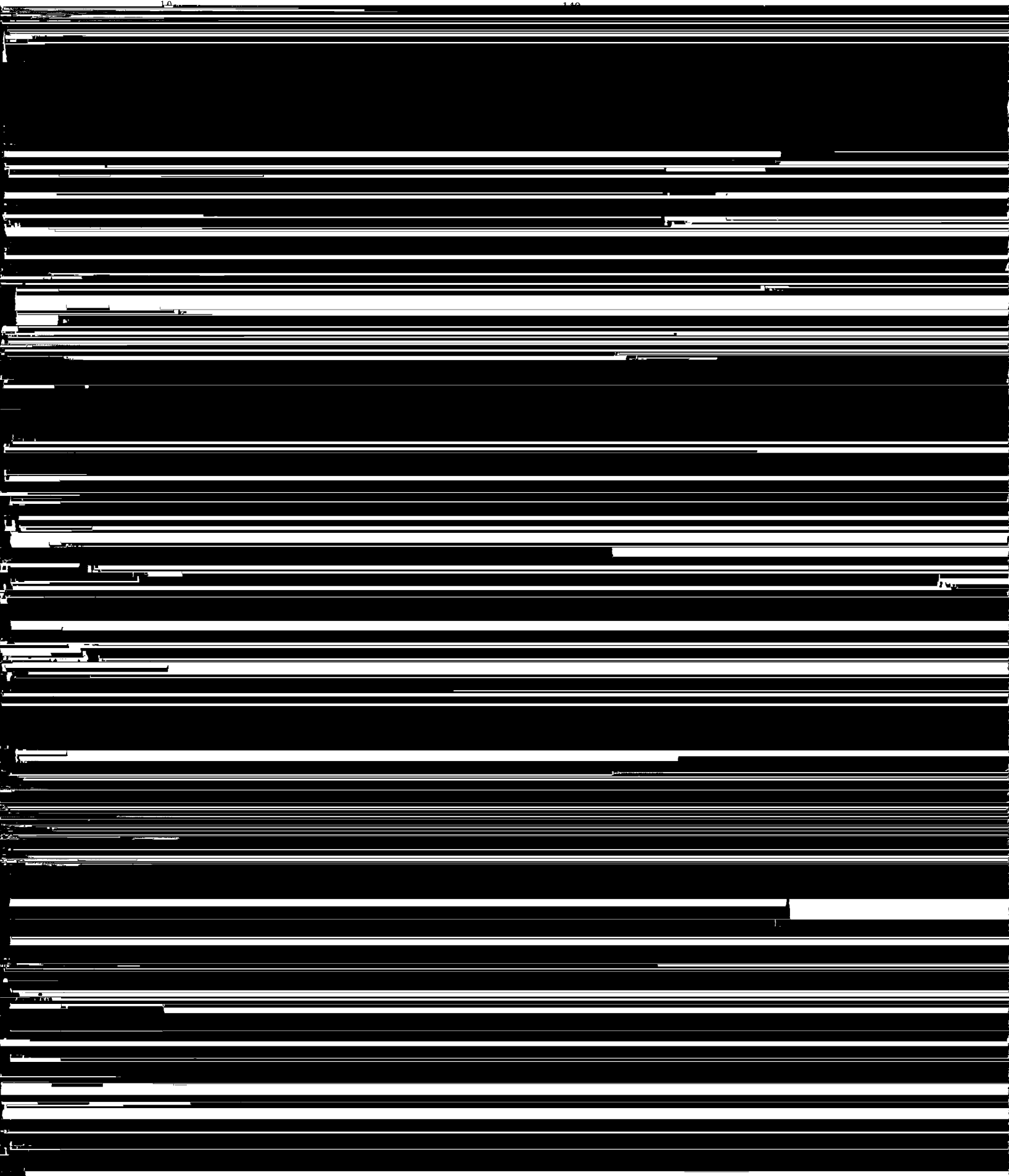
TABLE I
BEFORE THE CORRESPONDENCE DETECTOR STEP

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TABLE III
REAL OPERATIONS

Steps	Original Butterfly	Butterfly search with	Butterfly search with
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realization from infinitely many possible. A more complete description of the butterfly search technique is given in [1].

