

VALIDATION OF TWIN AXIAL ELECTRO- GONIOMETER IN ANGULAR MEASUREMENT

Thesis

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Master Degree in Physical Therapy

BY

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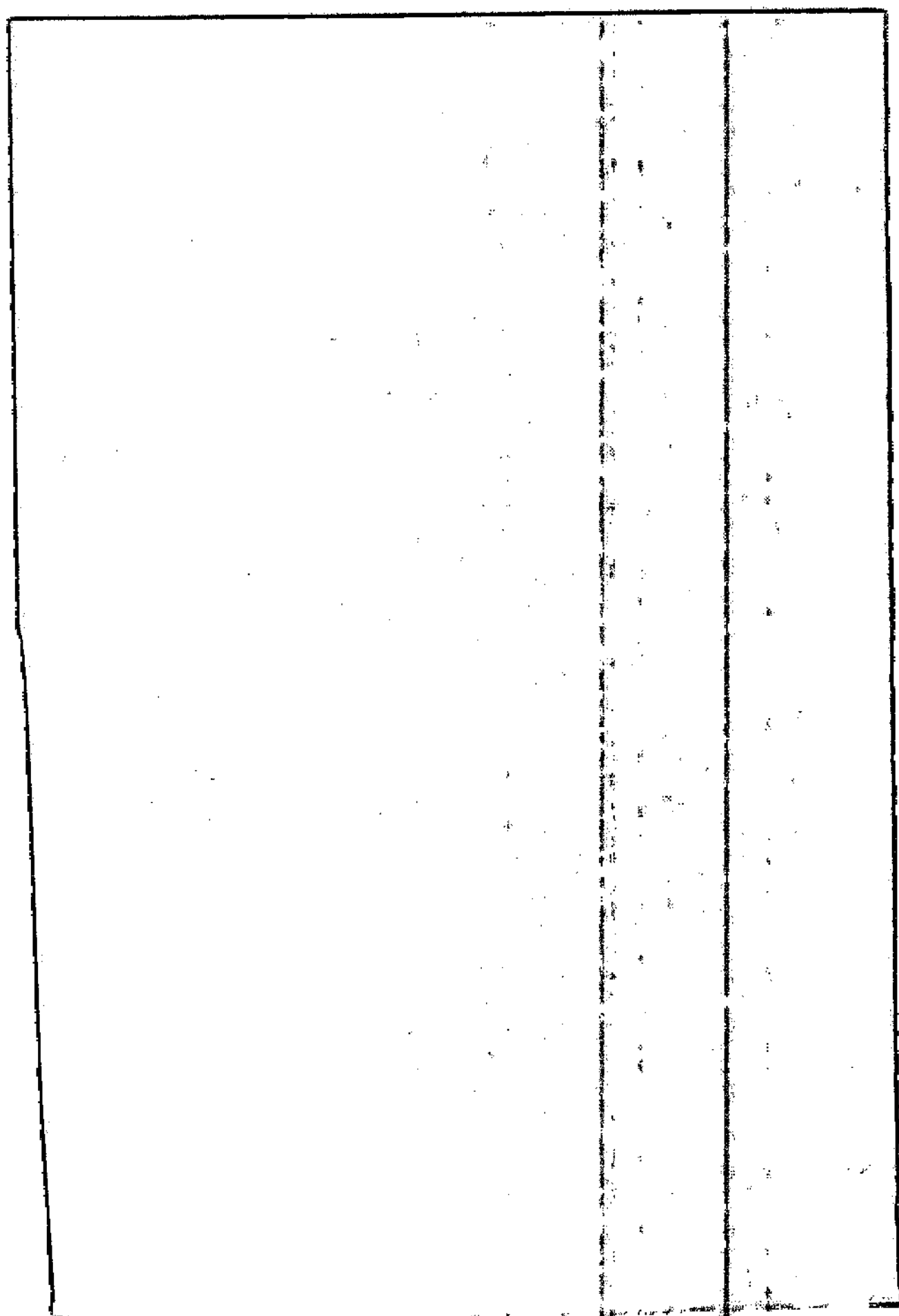
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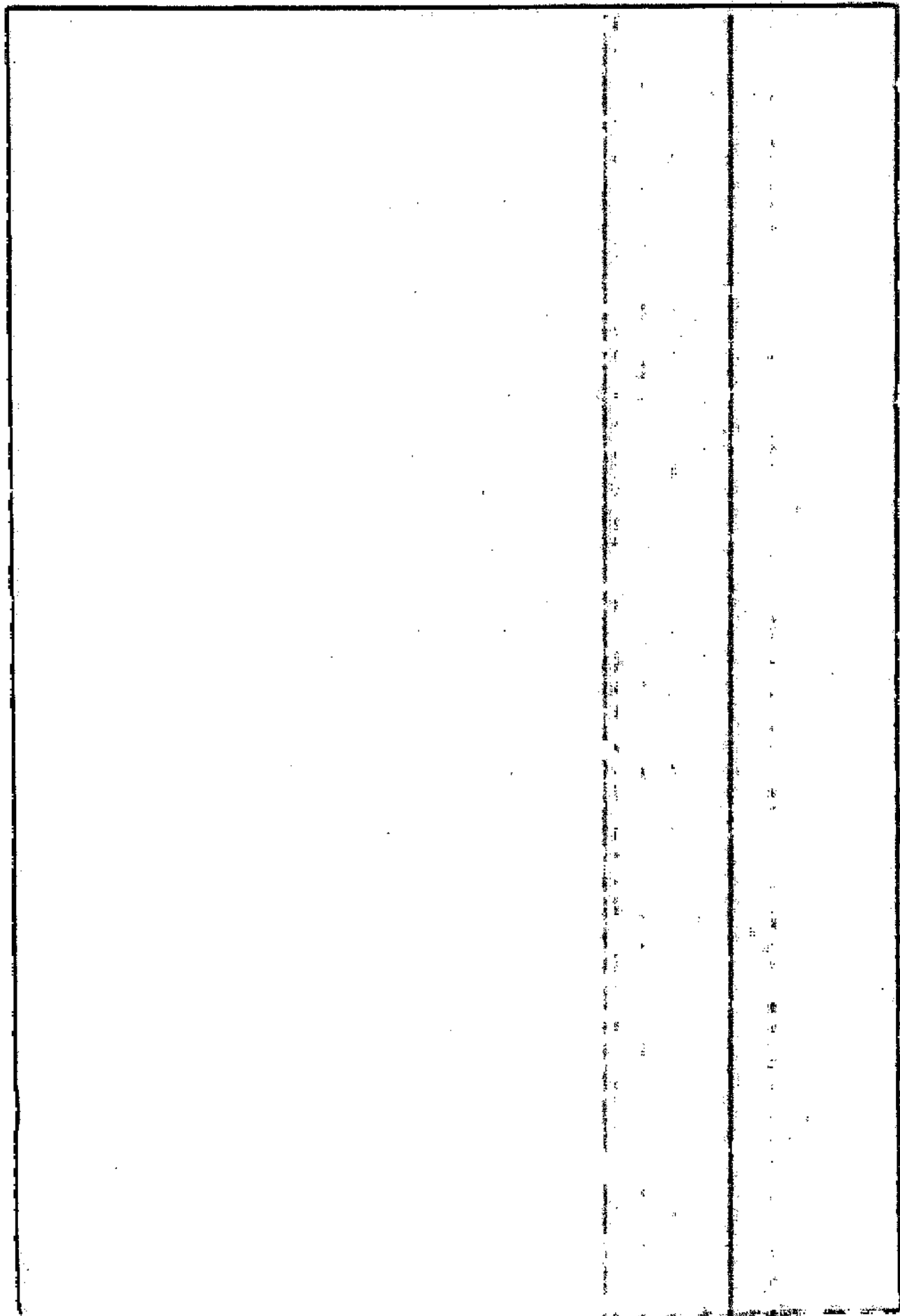
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Abstract

Background: Range of Motion measurement in Physical Therapy is very important to allow recording the state of the joint motion. **Purpose:** this study investigates the validity of a twin axial electrogoniometer in measuring joint angles (hip and knee). **Methodology:** Thirty normal subjects were assigned into one group, all the subjects were measured by the use of the electrogoniometer and the 3 Dimensional Motion Analysis system to measure Hip and Knee angles during sit to stand movement. **Results:** The study revealed that there was no statistical significant difference level in hip and knee joint angles between the electrogoniometer and the 3 Dimensional Motion Analysis systems during sit to stand movement. **Discussion:** The electrogoniometer may be considered as valid instrument in measuring joint Range of Motion during functional activity of daily living.

Key Words: Range of motion, Electrogoniometer, Three dimensional motion analyses, Sit to stand.

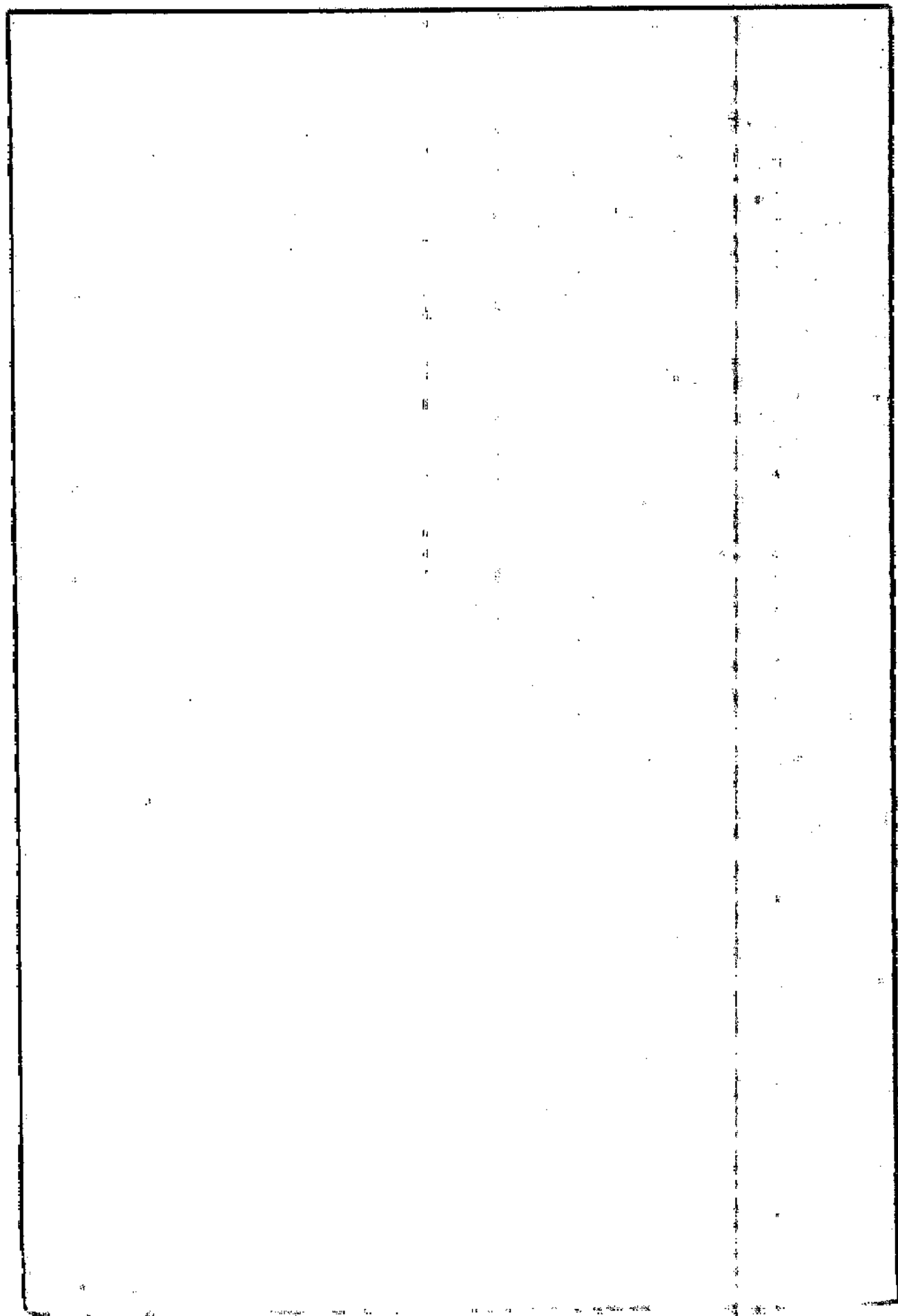
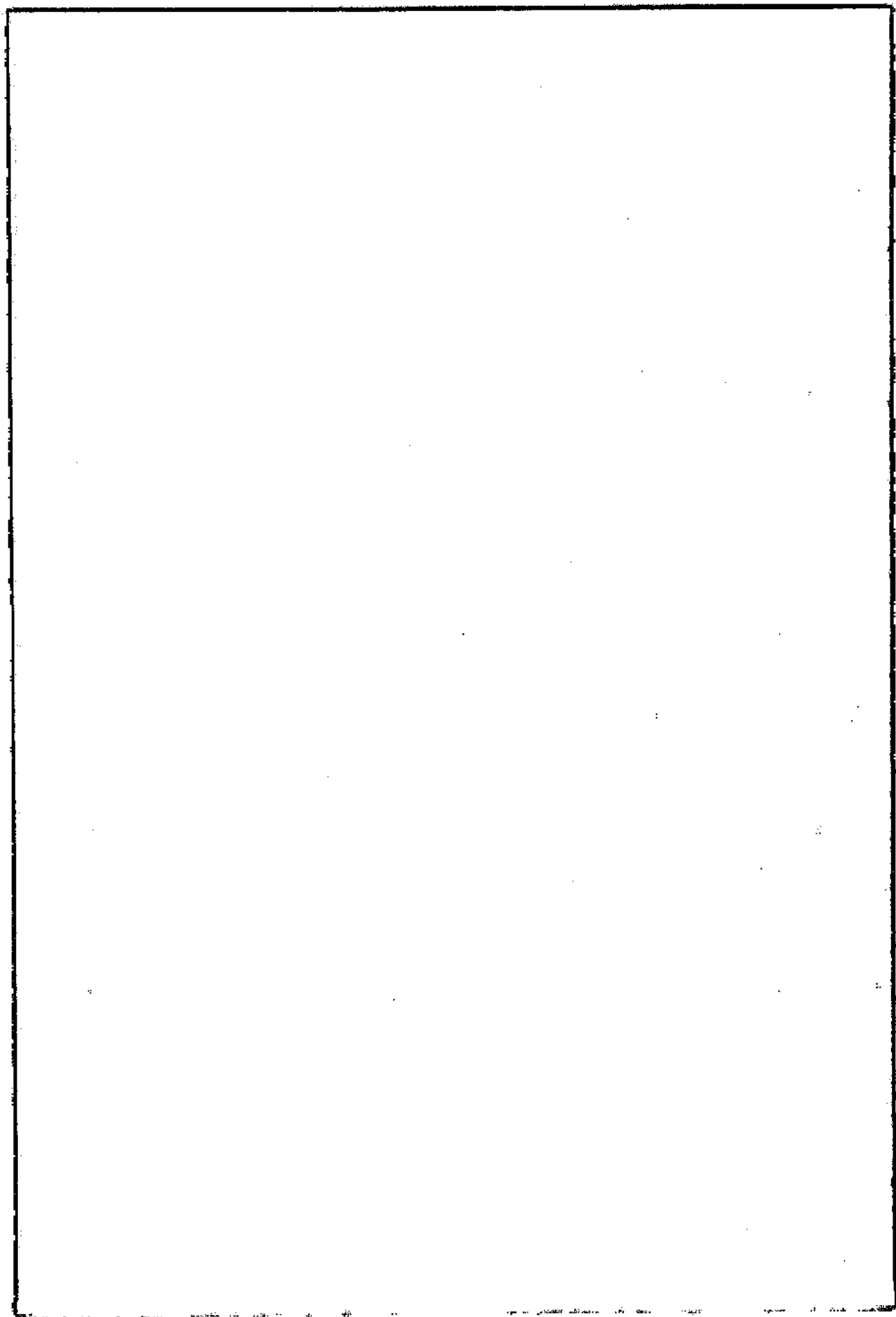


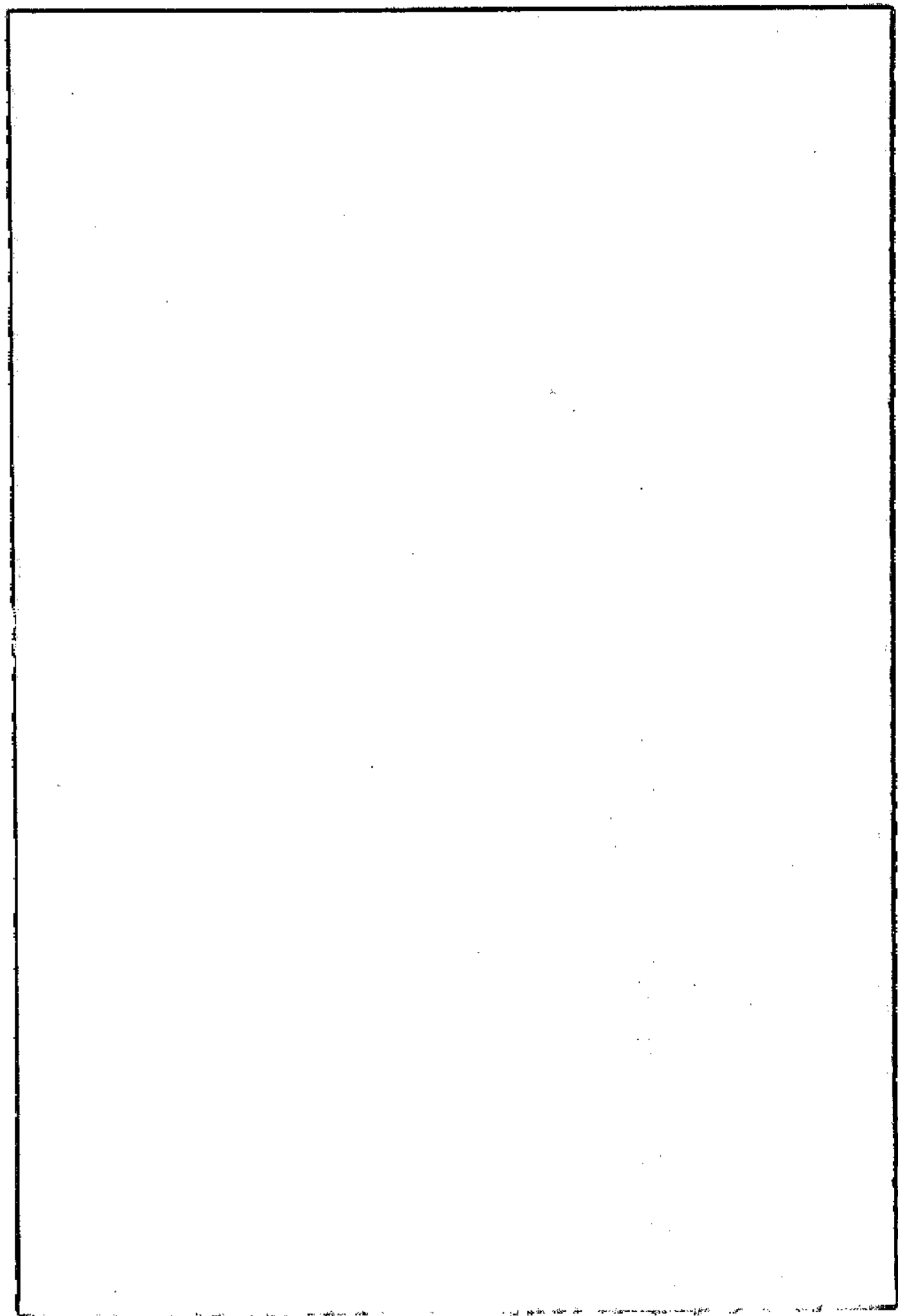
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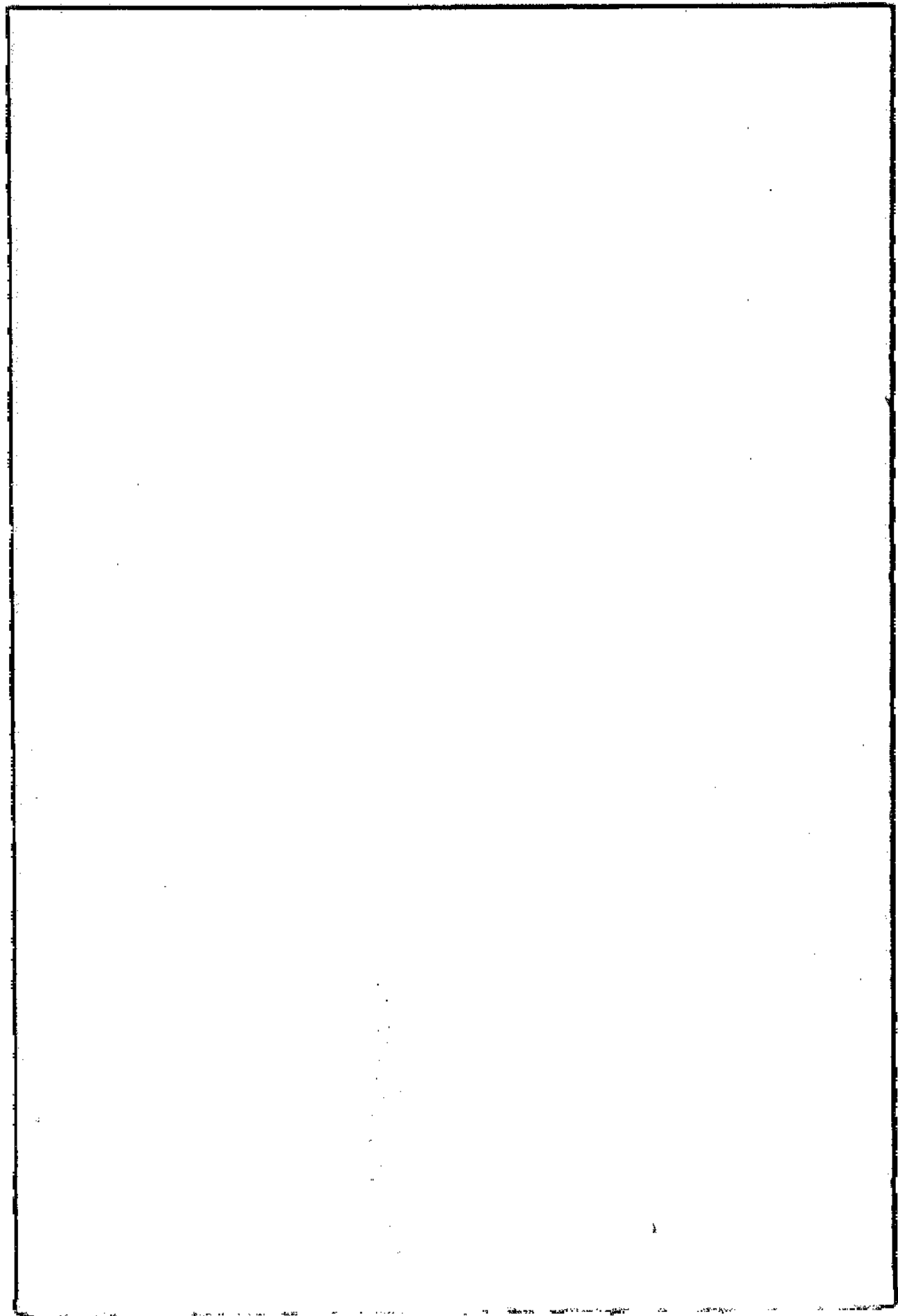


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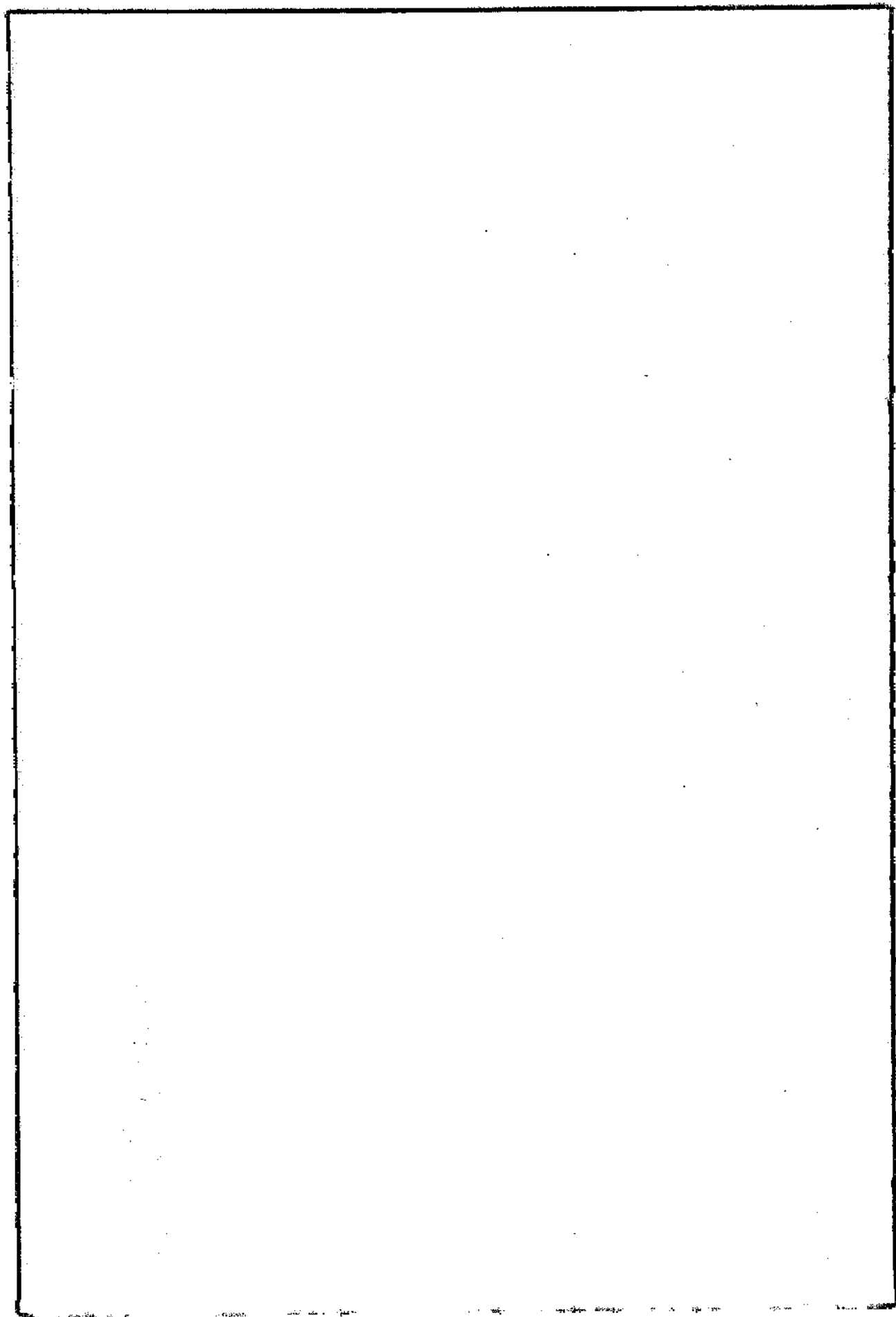


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