



**DESIGN AND DEVELOPMENT OF A MODEL OF ELECTRIC-POWERED
SCRUBBER FOR HOUSEHOLD APPLICATION**

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CHAPTER I

INTRODUCTION

1.0 Introduction

Scrubbing system is used to clean our home especially in toilet and bathroom. There are a few commercially available automated cleaning and polishing machines but they are either not cheap or not intended for household and low-duty applications. There is a vacancy in the Malaysian market for this type of product.

The new product, Electric-Powered Scrubber should be developed to provide optimum efficiency and offers greater flexibility that suitable for any household cleaning task. The existing scrubbing system are mainly operated manually, consume considerable amount of time and manpower to complete the process of cleaning. (Ullman, 1997)

The conventional scrubbing method which performed manually using simple tools does not usually provide satisfactory scrubbing. Since it is performed manually, scrubbing is limited only to the area that can be reached by the tool and this may affect the desired cleanliness. The existing scrubbing tools are designed for general purpose cleaning that do not take into account the efficiency of cleaning of locations hard to reach and the ergonomics of handling.