

TABLE OF CONTENT

APPROVAL SHEET	i
INTELLECTUAL PROPERTY STATEMENT FORM	ii
ABSTRACT	iii
ABSTRAK	iv
PREFAce	v
TABLE OF CONTENT	vi
LIST OF FIGURE.....	viii
LIST OF TABLE	ix
LIST OF SYMBOL.....	x
TERMINOLOGY.....	xi
LIST OF APPENDIX.....	xii
CHAPTER I INTRODUCTION	1
I.1 Research Background	1
I.2 Problems Definition.....	3
I.3 Research Objectives	3
I.4 Research Limitation.....	4
I.5 Benefits of Research.....	4
I.6 Writing Systematics.....	4
CHAPTER II LITERATURE REVIEW	6
II.1 Introduction to TRIZ (Теория Решения Изобретательских Задач)	6
II.2 Applying TRIZ to Design Around	7
II.2.1 Functional Analysis as TRIZ Tool.....	8
II.2.2 39 Parameters of TRIZ.....	8
II.2.3 The 40 Inventive Principles.....	9
II.2.4 Contradiction Matrix	10
II.3 Twistlock as Container Lashing Equipment (Investigated Object).....	10
CHAPTER III RESEARCH METHOD.....	13
III.1 Conceptual Model	13
III.2 Problem Solving Systematics	14
CHAPTER IV COLLECTING AND DATA PROCESSING	16
IV.1 Collecting Patent Documents	16

IV.1.1	Target Patent Search Strategy	16
IV.1.2	Collecting and Selecting Documents.....	16
IV.2	Processing The Data	18
IV.2.1	Creating Citation Mapping.....	18
IV.2.2	Fuctional Analysis	19
IV.2.3	Contradiction Matix Using 39 Parameters	22
IV.2.4	Proposing New Product Concept	23
	CHAPTER V ANALYSIS	24
V.1	Comparison of Each Fuctional Analysis	24
V.2	Comparison for Operational Prosedures	25
V.3	Functionality Analysis	25
V.4	Obviousness Analysis.....	26
	CHAPTER VI CONCLUSION AND SUGGESTION	28
VI.1	Conclusion.....	28
VI.2	Suggestion	28
	REFERENCE	29