
Contents

Acknowledgments	v
Introduction	vii
1 How much do we know about firms' propensity to patent?	1
1.1 Introduction	2
1.2 The propensity to patent	3
1.2.1 Why does the propensity to patent matter?	3
1.2.2 Known determinants of the propensity to patent	6
1.3 Data and econometric methodology	9
1.3.1 Independent variables	9
1.3.2 Econometric methodology	11
1.4 Empirical results	13
1.4.1 Descriptive statistics	13
1.4.2 Empirical results	18
1.4.3 Potential selection biases and other sample-induced biases	24
1.5 Concluding remarks	25
A Appendices	27
A.1 Potential pitfalls	27
A.2 Industry classification	30
A.3 Details on the econometric methodology	31
A.4 Sample selection	33
Bibliography	35
2 The two faces of the R&D-patent relationship	39
2.1 Introduction	40
2.2 Patent statistics as economic indicators	41
2.3 The Model	43
2.4 Empirical Implementation	47
2.4.1 Patent count	47
2.4.2 Value indicators	49

2.4.3	Sample	50
2.5	Results	52
2.5.1	Descriptive statistics	52
2.5.2	Productivity and propensity	53
2.5.3	Interpretation and discussion of the results	58
2.6	Concluding remarks	60
A	Appendix	63
A.1	Description of value indicators	63
	Bibliography	64
3	The role of fees in patent systems	69
3.1	Introduction	70
3.2	Historical perspective on the setting of fees	71
3.3	Stylized facts	72
3.4	Impact of fees on applicants' behavior	76
3.4.1	Descriptive papers and early hypotheses	76
3.4.2	Survey studies: never "cheap" enough	77
3.4.3	Pre-grant fees	78
3.4.4	Post-grant fees	80
3.5	In search for an optimal fee policy	81
3.6	Concluding remarks	84
A	Appendix	86
A.1	The complex fee schedule of patent systems	86
	Bibliography	88
4	On the price elasticity of demand for patents	93
4.1	Introduction	94
4.2	Methodological approach	96
4.3	Descriptive statistics	98
4.4	Econometric methodology	100
4.4.1	Partial adjustment model	102
4.4.2	Error correction model	102
4.5	Empirical results	103
4.6	Concluding remarks	107
A	Appendices	109
A.1	Working assumptions	109
A.2	Data sources	110
	Bibliography	111