Journal of Business Finance & Accounting / Volume 33, Issue 7-8 / p. 939-960

Staging of Venture Financing, Investor Opportunism and Patent Law

Jochen Bigus **⋈**

First published: 27 April 2006

https://doi.org/10.1111/j.1468-5957.2006.00005.x

Citations: 13

Abstract

Abstract: Stage financing provides a real option that is valuable when facing external uncertainty. However, it may also induce investor hold-up, if the property rights on an invention are not sufficiently protected. As a consequence, the entrepreneur may not work hard. Investor opportunism is less likely to occur, if investors' residual cash-flow-rights are contingent on verifiable 'milestones' in the previous stage. Equity-linked financing also provides high-powered incentives to the investor not to 'steal the idea' because his payoff becomes sensitive to the project value. The paper provides a new explanation for both types of contractual provisions.

REFERENCES

Admati, A.R. and P. Pfleiderer (1994), 'Robust Financial Contracting and the Role of Venture Capitalists', *Journal of Finance*, Vol. **69**, pp. 371–402.

Web of Science® Google Scholar

Aghion, Ph. and J. Tirole (1994), 'The Management of Innovation', *Quarterly Journal of Economics*, Vol. **109**, pp. 1185–209.

Web of Science® Google Scholar

Amit, R., L. Glosten and E. Muller (1990), 'Entrepreneurial Ability, Venture Investments, and Risk Sharing', *Management Science*, Vol. **36**, pp. 1232–45.

Web of Science® Google Scholar

Anand, B.N. and D. Galetovic (1994), 'Weak Property Rights and Holdup in R&D', *Journal of Economics and Management Strategy*, Vol. 9, pp. 615–42.

Google Scholar

Anton, J.J. and D. Yao (1994), 'Expropriation and Inventions: Appropriable Rents in the Absence of Property Rights', *American Economics Review*, Vol. **84**, pp. 190–209.

Web of Science® Google Scholar

Anton, J.J. and D. Yao (2004), 'Little Patents and Big Secrets: Managing Intellectual Property', *Rand Journal of Economics*, Vol. **35**, pp. 1–22.

Web of Science® Google Scholar

Areeda, P. and L. Kaplov (1998), Antitrust Analysis: Problems, Texts, Cases (Boston: Little Brown).

Google Scholar

Barrett, M. (1999), Intellectual Property – Patents, Trademarks and Copyrights (3rd ed., New York).

Google Scholar

Bascha, A. and U. Walz (2000), 'Convertible Securities and Optimal Exit Decisions in Venture Capital Finance', *Journal of Corporate Finance*, Vol. **8**, pp. 285–306.

Google Scholar

Bergemann, D. and U. Hege (1998), 'Venture Capital Financing, Moral Hazard, and Learning', *Journal of Banking and Finance*, Vol. **22**, pp. 703–35.

Web of Science® Google Scholar

Berger, A.N. and G.F. Udell (1998), 'The Economics of Small Business Finance: The Roles of Private Equity and Debt Markets in the Financial Growth Cycle', *Journal of Banking and Finance*, Vol. **22**, pp. 613–73.

Web of Science® Google Scholar

Berglöf, E. (1994), 'A Control Theory of Venture Capital Finance', *Journal of Law, Economics and Organization*, Vol. **10**, pp. 247–67.

Web of Science® Google Scholar

Berglund, T. and E. Johansson (2000), The Entrepreneur's Initial Contact with a Venture Capitalist: Why Good Projects May Choose to Wait, Working Paper (Swedish School of Economics and Business Administration, Helsinki, December).

Google Scholar

Besen, St.M. and L.J. Raskind (1991), 'An Introduction to the Law and Economics of Intellectual Property', *Journal of Economic Perspectives*, Vol. **5**, pp. 3–27.

Web of Science® Google Scholar

Bhattacharya, S. and G. Chiesa (1995), 'Proprietary Information, Financial Intermediation, and Research Incentives', *Journal of Financial Intermediation*, Vol. 4, pp. 328–57.

Web of Science® Google Scholar

Bhattacharya, S. and J. Ritter (1983), 'Innovation and Communication Signaling with Partial Disclosure', *Review of Economic Studies*, Vol. **50**, pp. 331–46.

Web of Science® Google Scholar

Black, B.S. and R.J. Gilson (1998), 'Venture Capital and the Structure of Capital Markets: Banks versus Stock Markets', *Journal of Financial Economics*, Vol. **47**, pp. 243–77.

Web of Science® Google Scholar

Casamatta, C. (2003), 'Financing and Advising: Optimal Financial Contracts with Venture Capitalists', *Journal of Finance*, Vol. **58**, pp. 2059–85.

Web of Science® Google Scholar

Cooter, R. and Th. Ulen (2004), Law and Economics (4th ed., Boston, Mass., Addison Wesley).

Google Scholar

Cornelli, F. and O. Yosha (2003), 'Stage Financing and the Role of Convertible Securities', *Review of Economic Studies*, Vol. **70**, pp. 1–32.

Web of Science® Google Scholar

EVCA (European Venture Capital Association), Yearbooks (Zaventem, Belgium 19912005).

Google Scholar

Farrell, J. (1995), 'Arguments for Weaker Intellectual Property Protection in Network Industries', *Stanford View*, Vol. 3, pp. 46–49.

Google Scholar

Gilson, R. and D. Schizer (2003), Understanding Venture Capital Structure: A Tax Explanation for Convertible Preferred Stock, *Harvard Law Review*, Vol. **116**, pp. 874–916.

Web of Science® Google Scholar

Gompers, P. and J. Lerner (1999), The Venture Capital Cycle (Cambridge, Mass.). **Google Scholar** Hansmann, H. and R. Kraakman (1992), 'Hands-Tying Contracts: Book Publishing, Venture Capital Financing, and Secured Debt', Journal of Law, Economics, and Organisation, Vol. 8, pp. 628-55. Web of Science® Google Scholar Hart, O. and J. Moore (1994), 'A Theory of Debt Based on the Inalienability of Human Capital', *Quarterly* Journal of Economics, Vol. 109, pp. 841-79. Web of Science® Google Scholar Kaplan, St. and P. Strömberg (2003), 'Financial Contracting Theory Meets the Real World: An Empirical Analysis of Venture Capital Contracts', Review of Economic Studies, Vol. 70, pp. 281–315. Web of Science® Google Scholar Kaplan, St. and P. Strömberg (2004), 'Characteristics, Contracts, and Actions: Evidence from Venture Capitalist Analyses', Journal of Finance, Vol. 59. pp. 2177–210. Web of Science® Google Scholar Keeney, R.L. and H. Raiffa (1976), 'Decisions with Multiple Objectives', Operations Research, Vol. 29, pp. 1105-20.

Web of Science® Google Scholar

Kirilenko, A. (2001), 'Valuation and Control in Venture Finance', Journal of Finance, Vol. 56, pp. 565–87.

Web of Science® Google Scholar

Kitch, E.W. (1998), 'Patents', in P. Newman (ed.), *The New Palgrave Dictionary of Economics and The Law*, Vol. 3, pp. 13–17.

Google Scholar

Lerner, J. (1994), 'The Syndication of Venture Capital Investments', Financial Management, Vol. 23, pp. 16–27.

Web of Science® Google Scholar

Lerner, J (1998), "Angel" Financing and Public Policy: An Overview, *Journal of Banking and Finance*, Vol. 22, pp. 773–83.

Web of Science® Google Scholar

Neher, D. (1999), 'Staged Financing: An Agency Perspective', Review of Economic Studies, Vol. 66, pp. 255-74.

Web of Science® Google Scholar

NVCA (National Venture Capital Association), Yearbook (Arlington, Virginia, 2005).

Google Scholar

Pfister, E. (2000), 'The Legal Enforcement of Intellectual Property Rights: An Empirical Study on French Trademarks', Working Paper (TEAM, Université de Paris).

Google Scholar

Repullo, R. and J. Suarez (2004), 'Venture Capital Finance: A Security Design Approach', *Review of Finance*, Vol. 8, pp. 75–108.

Google Scholar

Sahlman, W.A. (1990), 'The Structure and Governance of Venture-Capital Organizations', *Journal of Financial Economics*, Vol. **27**, pp. 473–521.

Web of Science® Google Scholar

Schmidt, K. (2003), 'Convertible Securities and Venture Capital Finance', *Journal of Finance*, Vol. **58**, pp. 1139–66.

Web of Science® Google Scholar

Scotchmer, S. (1998), 'Incentives to Innovate', in P. Newman, (ed.), *The New Palgrave Dictionary of Economics and The Law*, Vol. **2**, pp. 273–76.

Google Scholar

Trester, J. (1998), 'Venture Capital Contracting under Asymmetric Information', *Journal of Banking and Finance*, Vol. **22**, pp. 675–99.

Web of Science® Google Scholar

Ueda, M. (2004), 'Banks versus Venture Capital: Project Evaluation, Screening, and Expropriation', *Journal of Finance*, Vol. **59**, pp. 601–21.

Web of Science® Google Scholar

Citing Literature

ABOUT WILEY ONLINE LIBRARY

Privacy Policy

Terms of Use

About Cookies

Manage Cookies

Accessibility

Wiley Research DE&I Statement and Publishing Policies

Developing World Access

HELP & SUPPORT

Contact Us
Training and Support
DMCA & Reporting Piracy

OPPORTUNITIES

Subscription Agents
Advertisers & Corporate Partners

CONNECT WITH WILEY

The Wiley Network
Wiley Press Room

Copyright © 1999-2025 John Wiley & Sons, Inc or related companies. All rights reserved, including rights for text and data mining and training of artificial intelligence technologies or similar technologies.

