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8. Zvi Griliches (1986), 'Productivity, R&D, and Basic Research at the Firm Level in the 1970s', <i>American Economic Review</i> , 76 (1), March, 141–54	116
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11. F.M. Scherer (1992), 'Schumpeter and Plausible Capitalism', *Journal of Economic Literature*, XXX (3), September, 1416–33 178

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14. Edwin Mansfield, Mark Schwartz and Samuel Wagner (1981), 'Imitation Costs and Patents: An Empirical Study', *Economic Journal*, 91, December, 907–18 230
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