

Novelty in Functionality	Novelty in Knowledge Origins	Technological Impact
A. Novelty of components	A. Novelty of scientific origins	A. Performance increase
<i>A1. Given a certain purpose, to what extent does the technology embody different (combinations of) components compared to previous technologies with the same purpose?</i> 1) None of its (combination of) components are different 10) All of its (combinations of) components are different <i>A2. Concerning the new (combinations of) components identified in A1:</i> 1) They were used before to serve purposes related to the purpose of the invention at hand 5) They were used before, but only to serve purposes unrelated to the purpose at hand 10) They were never used in any technology before	<i>A1. Given its purpose, to what extent are the scientific origins of the technology different compared to the scientific origins of technologies with the same purpose?</i> 1) None of the scientific origins are different 10) All of the scientific origins are different <i>A2. Concerning the new scientific origins identified in A1:</i> 1) They were used before to serve purposes related to the purpose of the invention at hand 5) They were used before, but only to serve purposes unrelated to the purpose at hand 10) They were never used in any technology before	<i>To what extent was the goal set out to be served by the invention accomplished better compared to state-of-the-art practices at the moment of the invention?</i> 1) It had no overall performance increase 5) It made possible significant improvements compared to current practice, but still a number of significant problems are not assessed 10) It represented a major leap in performance and the goal set out is served completely thanks to the invention
B. Novelty in natural effects exploited	B. Novelty of technological origins	B. Technological accumulation
<i>B1. Given a certain purpose, to what extent does the technology embody different natural effects (guiding the selection of the combination of components) compared to previous technologies with the same purpose?</i> 1) None of its natural effects exploited are different 10) All of its natural effects exploited are different <i>B2. Concerning the natural effects to serve the purpose of the invention identified in (B1):</i> 1) They were used before to serve purposes related to the purpose of the invention at hand 5) They were used before, but only to serve purposes unrelated to the purpose at hand 10) They were never used in any technology before	<i>B1. Given its purpose, to what extent are the technological origins of the technology different compared to the scientific origins of technologies with the same purpose?</i> 1) None of the technological origins are different 10) All of the technological origins are different <i>B2. Concerning the new technological origins identified in (B1):</i> 1) They were used before to serve purposes related to the purpose of the invention at hand 5) They were used before, but only to serve purposes unrelated to the purpose at hand 10) They were never used in any technology before	<i>B1. Broadness of impact</i> B1a. To what extent did the technology have an impact on technologies that serve purposes different to the technology at hand? B1b. Concerning the technologies on which impact was identified in B1a: 1) They serve purposes very much related to the purpose of the invention at hand 10) They serve purposes entirely unrelated to the purpose at hand <i>B2. Magnitude of (in)direct impact</i> B2a. Given the scope of the impact, to what extent was it directly used by a multitude of inventions in the future? B2b. Given the scope of the impact, to what extent were its (combination of) components used indirectly by a multitude of inventions in the future? <i>B3. Novelty of impact</i> B3a. To what extent did the technology have impact on technologies that have never before built on the technologies with the purpose of the focal invention? B3b. Considering the novel impact identified above, to what extent did it pertain to technologies serving purposes unrelated to the purpose of the technology at hand?
		C. Obsoleting previous technologies
		<i>To what extent were the technologies previously used to serve the purpose of the invention made obsolete by the invention at hand?</i> 1) No previous technology was made obsolete 10) All previous technology were made obsolete