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"We Engineer the Quality of Your Success"

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RESEARCH & DEVELOPMENT

CLIENT's SITUATION

Client had an invention but insufficient technical expertise to evaluate the idea, define the most appropriate patent claims, and evaluate the effect of the invention on prior art.

PQA's TASK

Mathematically define the invention, its application, and the interaction with the rest of the machine. Write computer simulation software for dynamic modeling of the invention. Give recommendations on patentability and the patent claims that should be made.

PQA's ACTION

Thermodynamic, motion, and stress equations were developed. A preliminary patent search and literature search was conducted. Results showed no prior art and that the invention was able to add flexibility to the machine's operation, as well as shifting the optimization point for typical machines. The computer simulation was able to identify 3 significant claims that the inventor was previously unaware existed. A final report was issued, a patent attorney was obtained, and assistance was given in preparation of U.S. and Canadian patent application.

CLIENT's RESULTS

Results of the computer simulation and the engineering analysis performed by PQA were forwarded to the client's patent attorney for inclusion into the patent application.

The client is in the process of obtaining U.S., Canadian, and world-wide patents.