

CONCLUSION.

In as few words as possible, I have made clear the necessity for humanitariau and economical conditions by which success may be attaiued in perfecting combustion, how health may be promoted by eliminating the smoke nuisance, how life may be saved by design in the locomotives and how the men in the Cabs of the locomotives may be saved from cruel death by explosions of their locomotives.

While the printer is at work, I turn again to the subjects, and incidentally to the un wisdom of lawyers in their treatment of the victims of smoke and explosions.

The Montreal Gazette under the heading of a "KNOTTY POINT IN APPEAL" in commenting upon an action by Mrs. Hannah Irwin, the widow of a G. T. Ry. Engineer who lost his life by the explosion of the hoiler of his locomotive said :

"They, the Jury, following the remarks of the Judge "that the mere fact that the explosion took place, pre-supposed that the boiler was defective, and awarded the widow \$5,000 damages."

The evidence for cause not being published, criticism is made with the most common cause in mind, probably the real cause by which Engineer Irwin lost his life, for almost every explosion is so caused.

The reasoning by which the Court came to that conclusion, may be supported by reference in argument to the quality of the boiler plate, its tensile strength, stayed with approved stays, their tensile strength, the pressure of steam in the boiler, the workmanship, the whole examined by the engineer a few minutes before leaving Massena Springs.

And as, a few minutes after leaving Massena Springs, the boiler exploded, it is self evident that there was a defect, and the defect not being in the material or workmanship, it may be pre-supposed that the design was defective, and as explosions are occasional disasters on the railways of this Continent over which about 70,000 locomotives are in service, each stayed with over 1500 staybolts and crown stays, manned in all with 140,000 Engineers and firemen, serving the public, as the lawyers say, for the wage compensation vs. the chances of death by explosion,