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Simplify the expression using positive exponents only.

$$\left(\frac{a^{-6}b}{a^b^2}\right)^{-2} = \frac{a^{12}b^{-2}}{a^{-2}b^{-4}} = \frac{(a^{12}a^3b^4)}{b^2} = a^{14}b^2$$