$$\frac{2\sin\theta\tan\theta\;(1-\tan\theta)+2\sin\theta\,(\sec\theta)^2}{(1-\tan\theta)^2}=\frac{2\dfrac{(\sin\theta)^2}{\cos\theta}\left(1-\dfrac{\sin\theta}{\cos\theta}\right)+\dfrac{2\sin\theta}{(\cos\theta)^2}}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}$$

$$=\frac{\dfrac{2(\sin\theta)^2}{\cos\theta}-\dfrac{2(\sin\theta)^3}{(\cos\theta)^2}+\dfrac{2\sin\theta}{(\cos\theta)^2}}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}=\frac{\dfrac{2(\sin\theta)^2\cos\theta-2\,(\sin\theta)^3+2\sin\theta}{(\cos\theta)^2}}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}$$

$$=\frac{\dfrac{2(\sin\theta)^2\cos\theta+2\sin\theta(1-(\sin\theta)^2)}{(\cos\theta)^2}}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}=\frac{\dfrac{2(\sin\theta)^2\cos\theta+2\sin\theta(\cos\theta)^2}{(\cos\theta)^2}}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}$$

$$=\frac{\dfrac{2\sin\theta\cos\theta}{(\cos\theta)^2}(\sin\theta+\cos\theta)}{1-2\dfrac{\sin\theta}{\cos\theta}+(\dfrac{\sin\theta}{\cos\theta})^2}=\frac{\sin 2\theta(\sin\theta+\cos\theta)}{(\cos\theta)^2-2\sin\theta\cos\theta+(\sin\theta)^2}$$

$$=\frac{\sin 2\theta(\sin\theta+\cos\theta)}{1-\sin 2\theta}$$