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The expression Eq. (15) for $Q$ is missing a sign $(-1)^{(M-1)/2}$, which is also the sign of $P$. $G(x,y)$ in both Eqs. (2) and (20) should be replaced by $i^{(M-1)/2}G(x,y)$, so that the correct Eq. (2) reads

$$i^{(M-1)/2}G(x,y) = \text{Pf}(A') = \sqrt{\text{Det} A'}.$$  

This is because the term in the Pfaffian corresponding to the dimer covering in Fig. 1(c) has a phase factor $i^{(M-1)/2}$, where $(M-1)/2$ is the number of horizontal dimers in the figure, and all terms in the Pfaffian carry the same factor. Introducing the sign $(-1)^{(M-1)/2}$ of $P$ as cited in the above into Eq. (20), the factor $i^{(M-1)/2}$ is canceled and Eq. (20) leads to the expression (1) for $G(x,y)$.  
