Corrigendum

R. BARNARD, J. HOLLOWAY, C. F. RANDELL, F. L. TYE,

Studies concerning the growth of cadmium dendrites. III. Theoretical treatment, *J. Appl. Electrochem.* **14** (1984) 187.

It is regretted that there is an error in the derivation of Equation 35 on page 193. The correct derivation starting at Equation 29 on page 192 is as follows:

$$i_t = Z + \int_{t_{min}}^{t} [2h(w+d)i_L + wdi_{tip}]N_0K_0\,dt \tag{29}$$

where Z is the substrate current and t_{min} is the time at current minimum. With h given by Equation 15 and i_{tip} given by Equation 16, Equation 29 becomes

$$i_t = Z + \int_{t_{min}}^{t} \left[2(w+d)i_L + \frac{wdnFK_1}{V}\right] h_0 \exp(K_1t) N_0K_0\,dt \tag{30}$$

or in abbreviated form

$$i_t = Z + \int_{t_{min}}^{t} Q \exp(K_1T) \tag{31}$$

where $Q = N_0K_0[2(w+d)i_L + (wdnFK_1/V)]h_0$. On integration Equation 31 gives

$$i_t = {}_{t_{min}}^{t}\left[\frac{Q}{K_1}\exp(K_1t)\right] + Z \tag{32}$$

Z can be evaluated as follows:

At t_{min} the total current is i_{min}

$$i_{min} = \left[\frac{Q}{K_1}\exp(K_1t_{min})\right] + Z \tag{33}$$

so that

$$Z = i_{min} - \left[\frac{Q}{K_1}\exp(K_1t_{min})\right] \tag{34}$$

and Equation 32 becomes

$$i_t = {}_{t_{min}}^{t}\left[\frac{Q}{K_1}\exp(K_1t)\right] + i_{min} - \left[\frac{Q}{K_1}\exp(K_1t_{min})\right] \tag{35}$$

It should be noted that Z is not a constant of integration as erroneously stated in the article.

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