

This chapter has drawn together four differing pieces of railway music. In *Train music* and *The Celestial Railroad* both Grainger and Ives are drawn to the evocative sounds of a train journey. Both use percussive dissonant chords and a dense rhythmic texture to portray the movement of the train but Ives goes further in his imitation of train sounds whereas Grainger attempts to capture the smell, the heat, the onward rushing and the changes of scene in 'A glorious totality; an essence transmuted into sound'. Grainger's 'Arrival Platform Humlet' and Ives' 'From Hanover Square North' are both set on station platforms but they represent two very different experiences. Grainger's is a private affair where a lover hums to himself as he awaits his sweetheart, a single wandering line with no real themes or sense of direction. In contrast Ives represents a collective and intense experience where the dissonant tension of the music builds up throughout the movement until the crowd of passengers join together in a heartfelt rendition of the hymn tune 'In the sweet by and by'.

Endnotes

- 1 Grainger wrote for the solovox, an electronic sound-producing attachment which he added to the piano or Hammond organ.
- 2 A theremin is an electronic musical instrument controlled without physical contact by the player. It has two antennae, a vertical one which controls the pitch and a horizontal loop which controls the volume. Both are manipulated by the player's hands. It is named after the Russian Leon Theremin who invented it in 1920.
- 3 Kangaroo-Pouch Tone-Tool was developed by Grainger and the physicist Burnett Cross. It uses rolls of paper and a series of oscillators to produce a sound.
- 4 Wilfrid Mellers. *Percy Grainger*. (Oxford: Oxford University Press. 1992): 139.
- 5 Lewis Foreman, ed. *The Percy Grainger Companion*. (London: Thames Publishing, 1991): 71.
- 6 'Deagan percussion instruments' were manufactured by the Deagan company, founded in 1880. It manufactured glockenspiels and developed other instruments including the xylophone, vibraharp, aluminium chimes, aluminium harp, Swiss handbells, the marimba and tubular bells.
- 7 Mellers, *Percy Grainger*, 39.
- 8 Charles E Ives. *Charles E Ives. Memos*. (New York: W. W. Norton & Company, edited by John Kirkpatrick, 1972): 92.