

ABSTRACT OF THE DISCLOSURE

IMPROVED STRUCTURE OF LINEAR COMPRESSOR

A linear compressor is provided which may be employed in refrigerators or air conditioners. The linear compressor includes a
5 compressor mechanism disposed within a hermetic casing. The
compressor mechanism includes a linear motor which makes a
piston reciprocate within a cylinder and a piston oscillation
controller. The piston oscillation controller controls oscillations of
the piston so as to bring an actual top dead center position of the
10 piston into agreement with a reference top dead center position
and alters the reference top dead center position based on a given
parameter such as an ambient temperature or a required thermal
load of, for example, a refrigerator. An improved structure of the
linear motor is also provided.

Figure 1.