

VALVED DISCHARGE MECHANISM
OF A REFRIGERANT COMPRESSOR

ABSTRACT OF THE DISCLOSURE

5 A refrigerant compressor includes a compressor housing divided at least partially
by a valve plate into a first chamber comprising a compression chamber, and a second
chamber comprising a discharge chamber. A fluid conduit links the compression
chamber with the discharge chamber. An elastic valve member opens and closes the
end of the conduit. The valve member has a predetermined spring constant such that
10 the end opening of the conduit remains blocked until the pressure in the compression
chamber reaches a predetermined value. An integral gasket is positioned between the
valve plate and the front and rear housings and comprises an outermost, an intermediate
and an innermost annular portion chamber. Outer ribs are connected between the
outermost and the intermediate annular portion, and inner ribs are connected between
15 the intermediate and the innermost annular portions. The inner ribs are aligned with
the discharge valve and have a portion bent outwardly with respect to the valve plate
for limiting the magnitude of the opening of the valve member. The front and rear
housings include radial projections extending from an inner surface thereof. The
projections include an end surface which supports the bent portion of the respective ribs.

