

SYSTEM FOR REDUCING COMPRESSOR NOISE AND SUSPENSION SPRING AND SNUBBER ARRANGEMENT THEREFOR

ABSTRACT

[0039] The present invention comprises a suspension spring and snubber arrangement for reducing transmitted noise from a reciprocating compressor at 1/3-octave frequency band of 500 Hz and preventing the occurrence of resonance frequency during the reciprocating compressor operation, the arrangement comprising: the suspension spring having a plurality of coils and two opposing open ends; at least one snubber for maintaining the integrity and shape of the suspension spring and for preventing displacement of the suspension spring from their intended position; wherein at least one open end of the suspension spring is loosely fitted over the at least one snubber; and further wherein an internal diameter of the suspension spring is larger than a outer diameter of the snubber so that a gap is defined between the suspension spring and the snubber for minimizing physical contact between the suspension spring and the snubber.

[0040] FIG.3B accompanies the abstract.