Article Summary

*Equipment: Instruments (2)*

**Citation**: Gibson, Lee, *Fundamentals of Acoustical Design of the Soprano Clarinet*. Music Educators Journal, Feb 1968, Vol 54, Issue n6, pp 113-115.

**Article Title**: *Fundamentals of Acoustical Design of the Soprano Clarinet*

**Author**: Lee Gibson

**INSTRUMENT**: Clarinet

**Magazine or Journal Title**: Music Educators Journal

**Summary**:

1. The clarinet maker’s first goal must be the achievement of the greatest perfection of intonation in all registers.
2. Size of cylindrical bore
   1. The primary determinant of pitched emitted in the different harmonic modes or registers are determined based on the size of cylindrical bore
3. Reversed conical enlargement of left-hand joint and barrel
   1. A means of adjusting the pitch
4. Parabola of the right-hand joint and bell
   1. Reason for the bell is to improve the sounds of the lowest tones
5. Mouthpiece cone and windway
   1. The cross-sectional area inside the mouthpiece determines several variables including:
      1. Overall flatness or sharpness of pitch
      2. The final pitch relationships of the registers
6. Placement and sizing of the tone holes
   1. Contributes to pitch
7. Fraising of tone holes