

1970

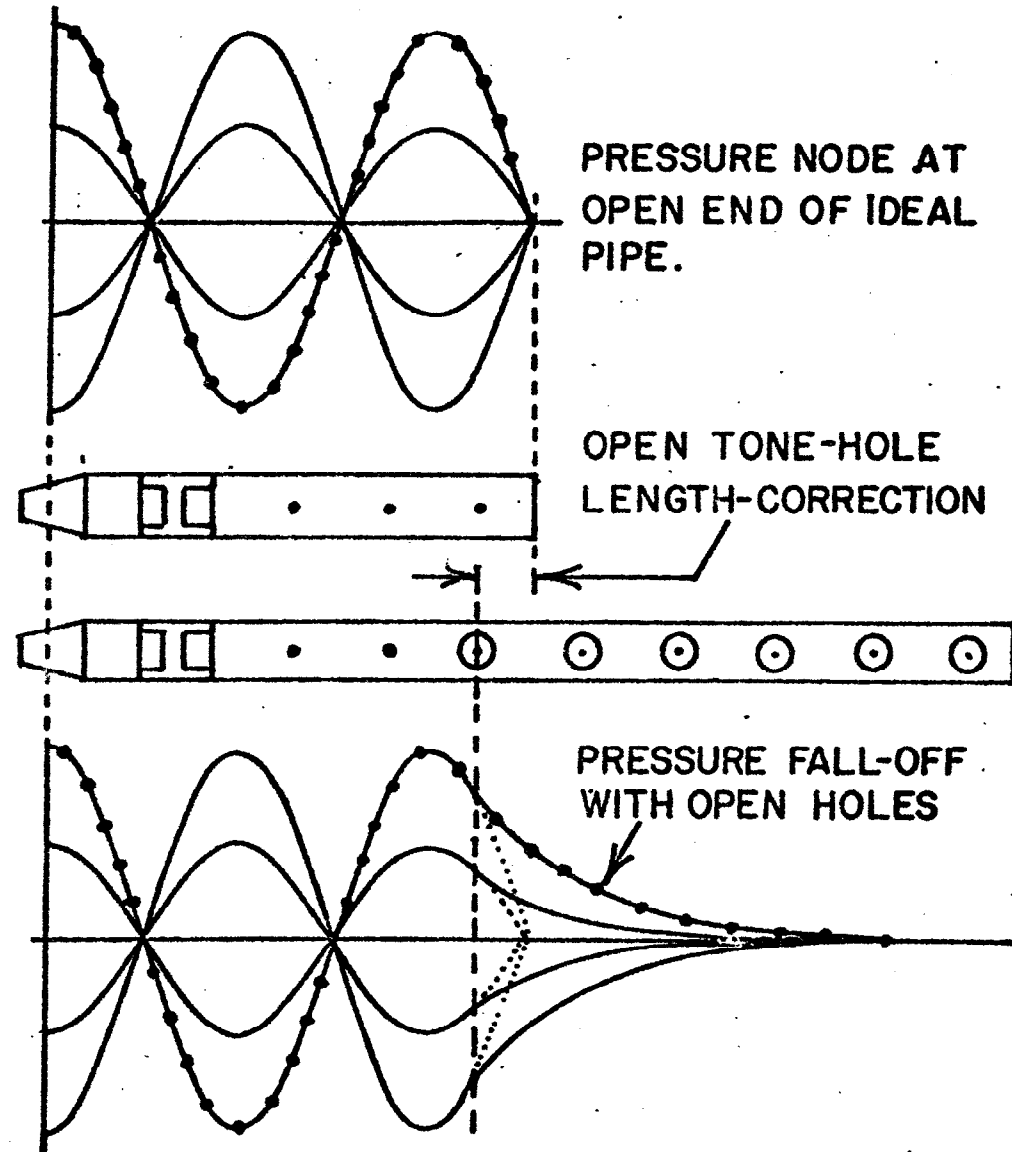
B1560-104 *Acoustical Data on Clarinets*

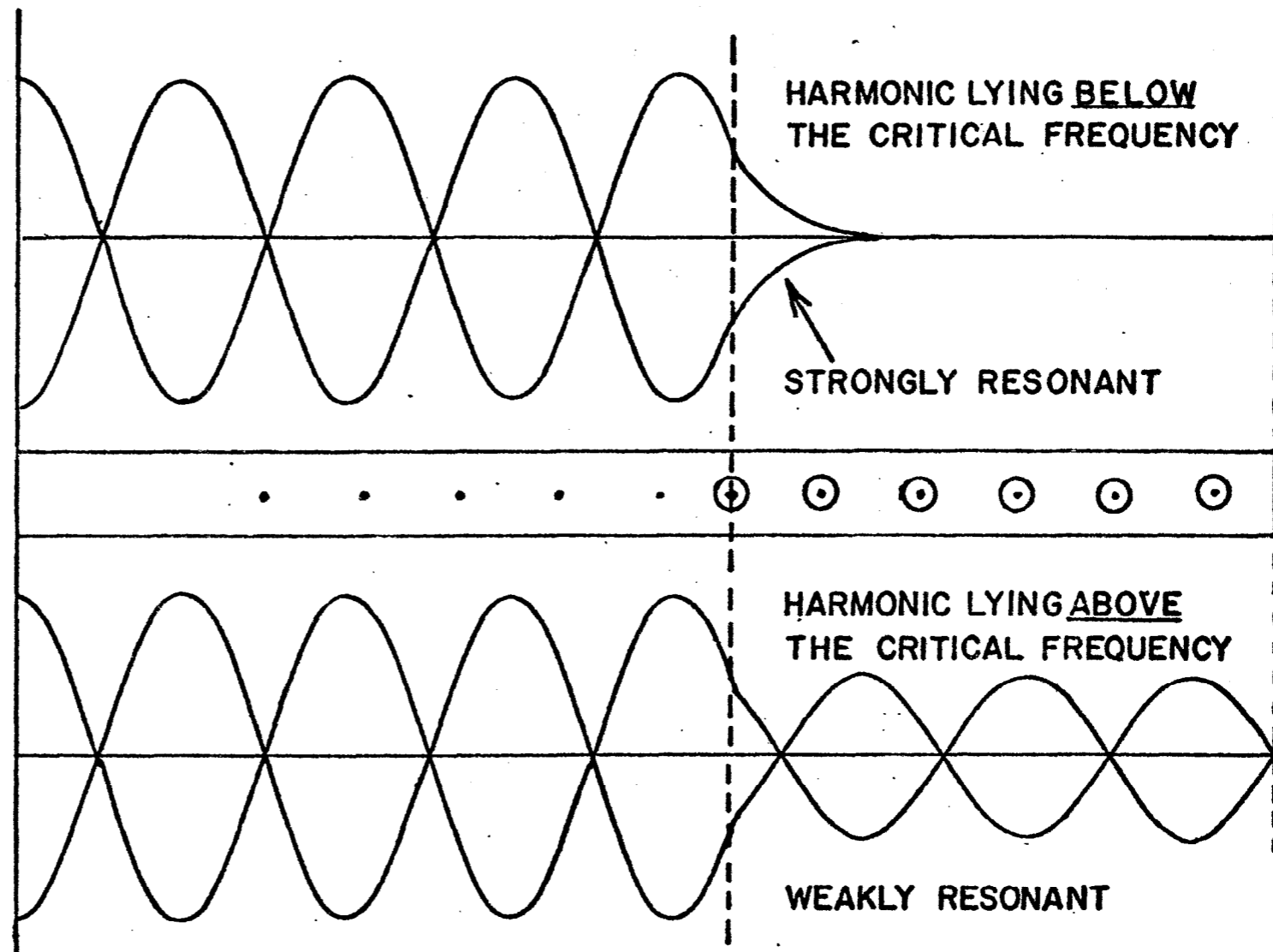
SOME ACOUSTICAL DATA
ON
CLARINETS

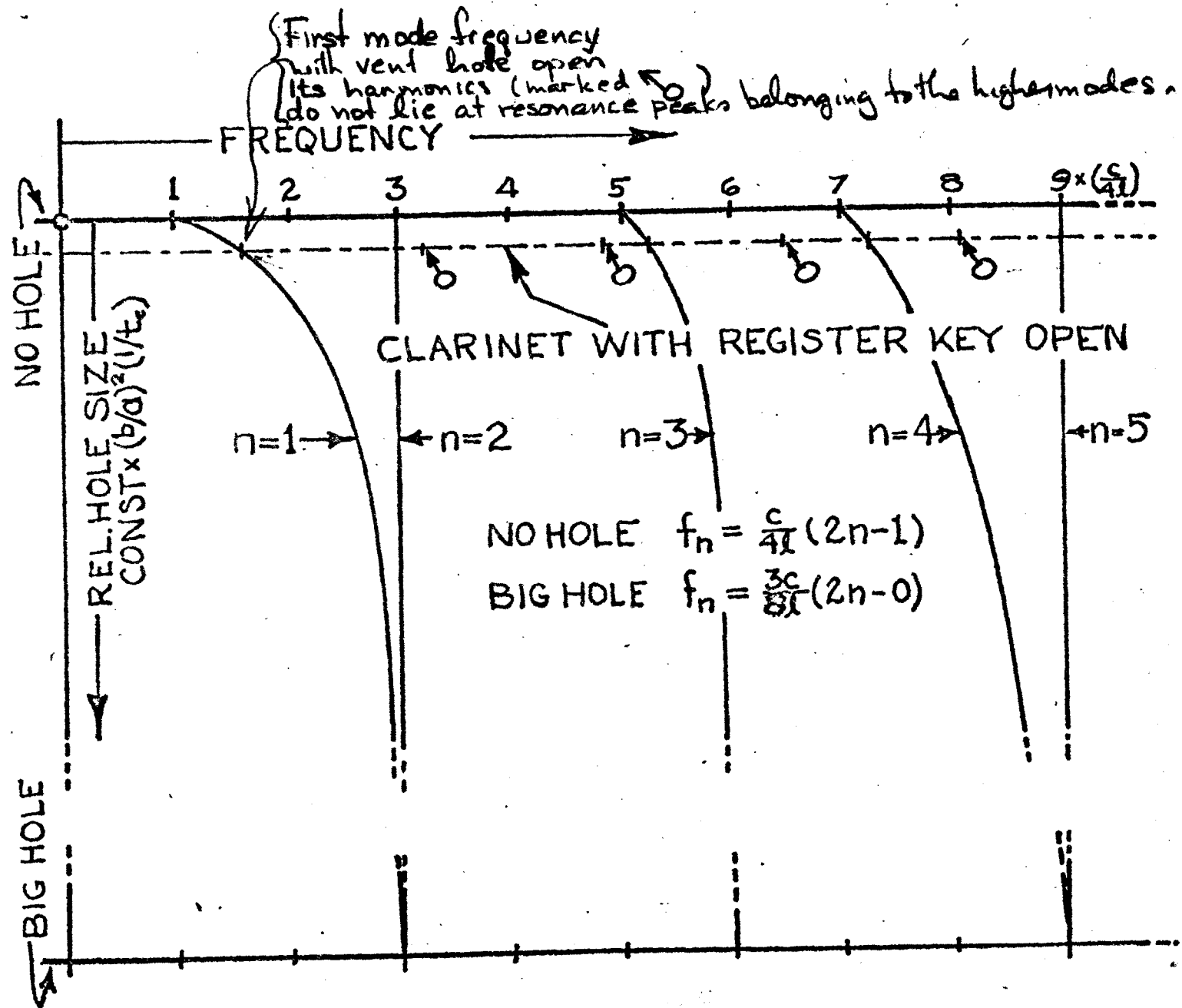
AH Benade,
Case Western Reserve University
Cleveland Ohio 44106

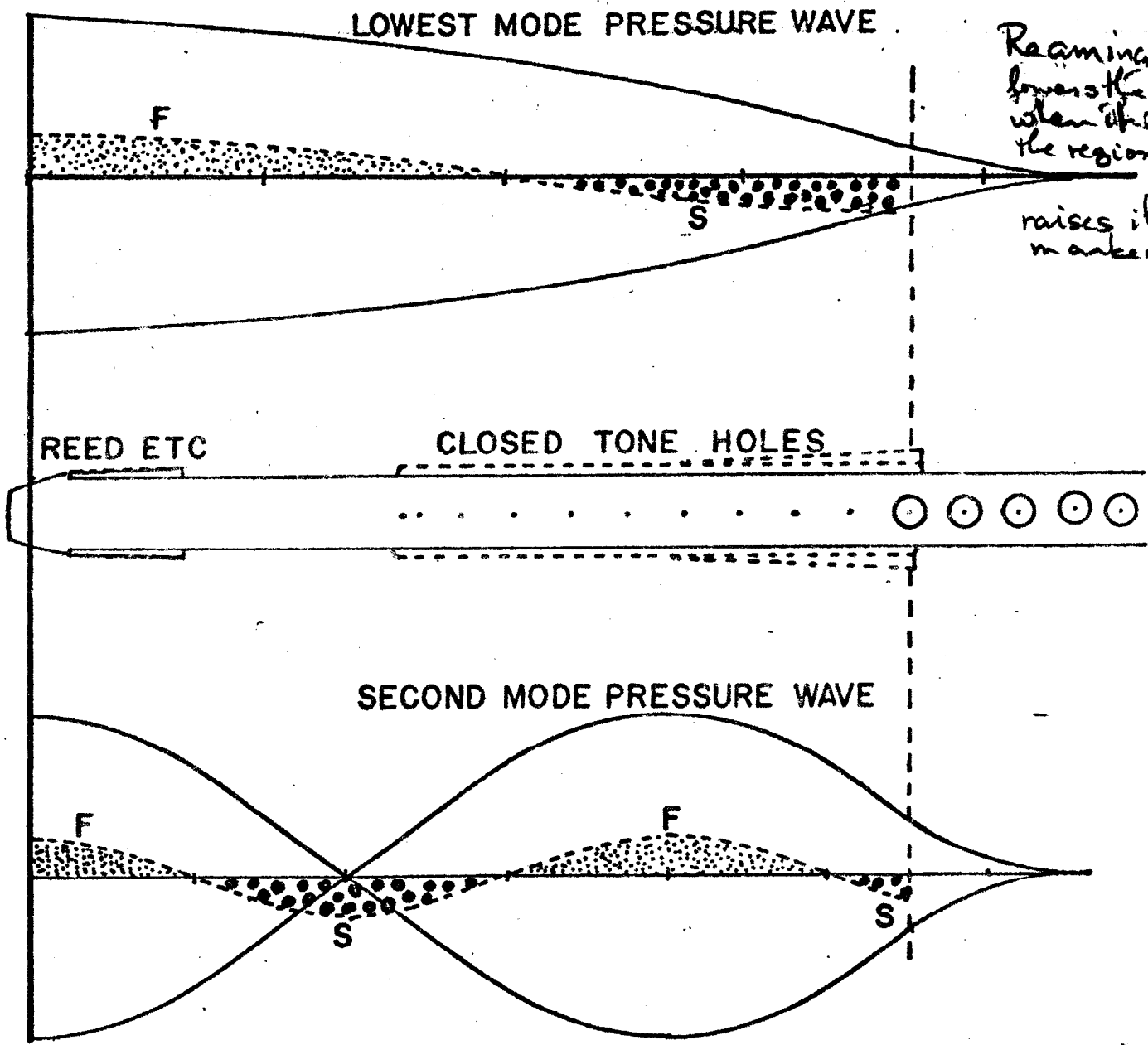
February 25 1970

A REED-SUSTAINED SYSTEM RUNS AT FREQUENCIES WHICH MAKE THE PRESSURE VARIATIONS MAXIMUM AT THE REED END. THE SITUATION AT THE LOWER END VARIES, BUT IT APPROXIMATES ZERO PRESSURE.

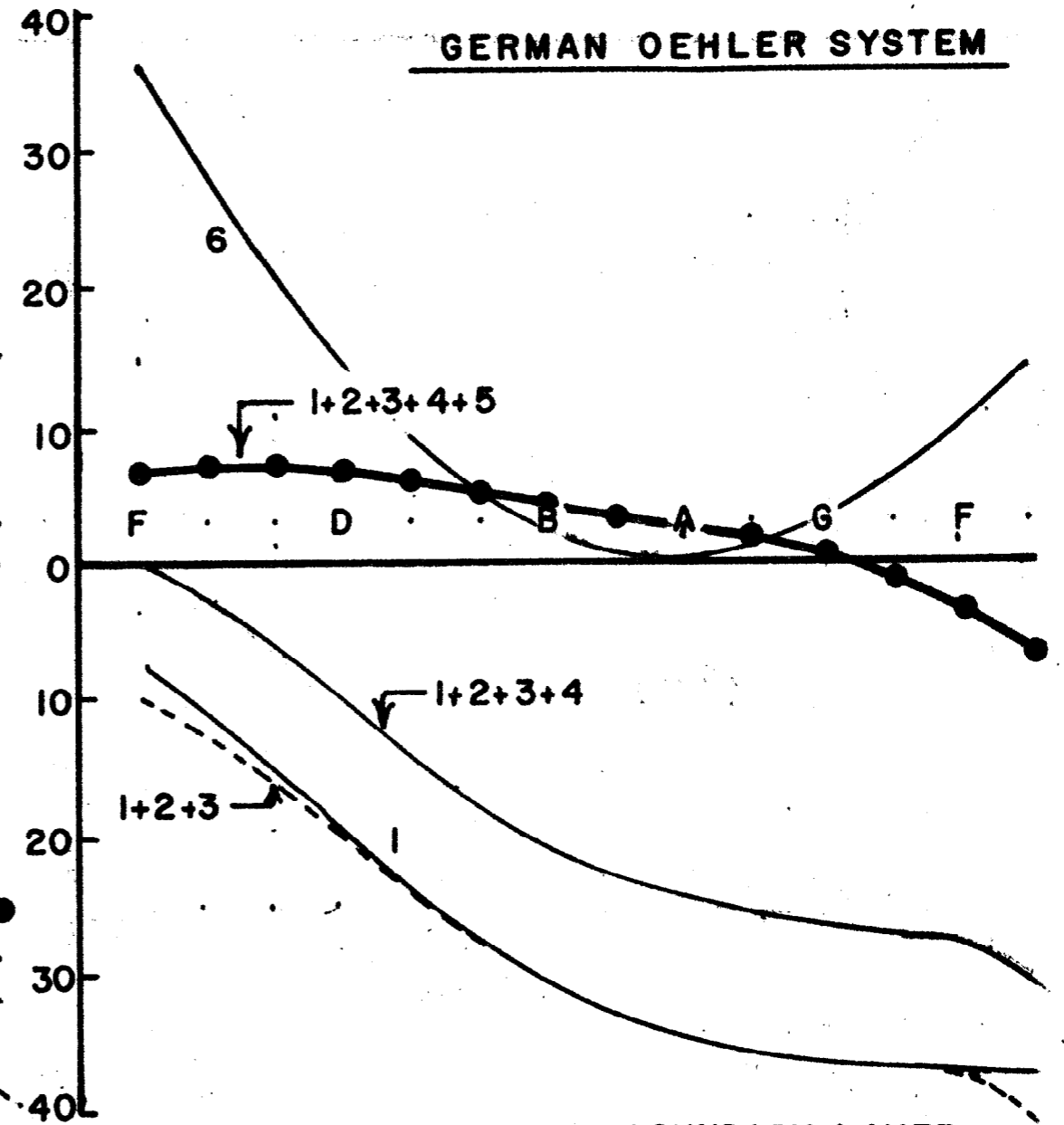
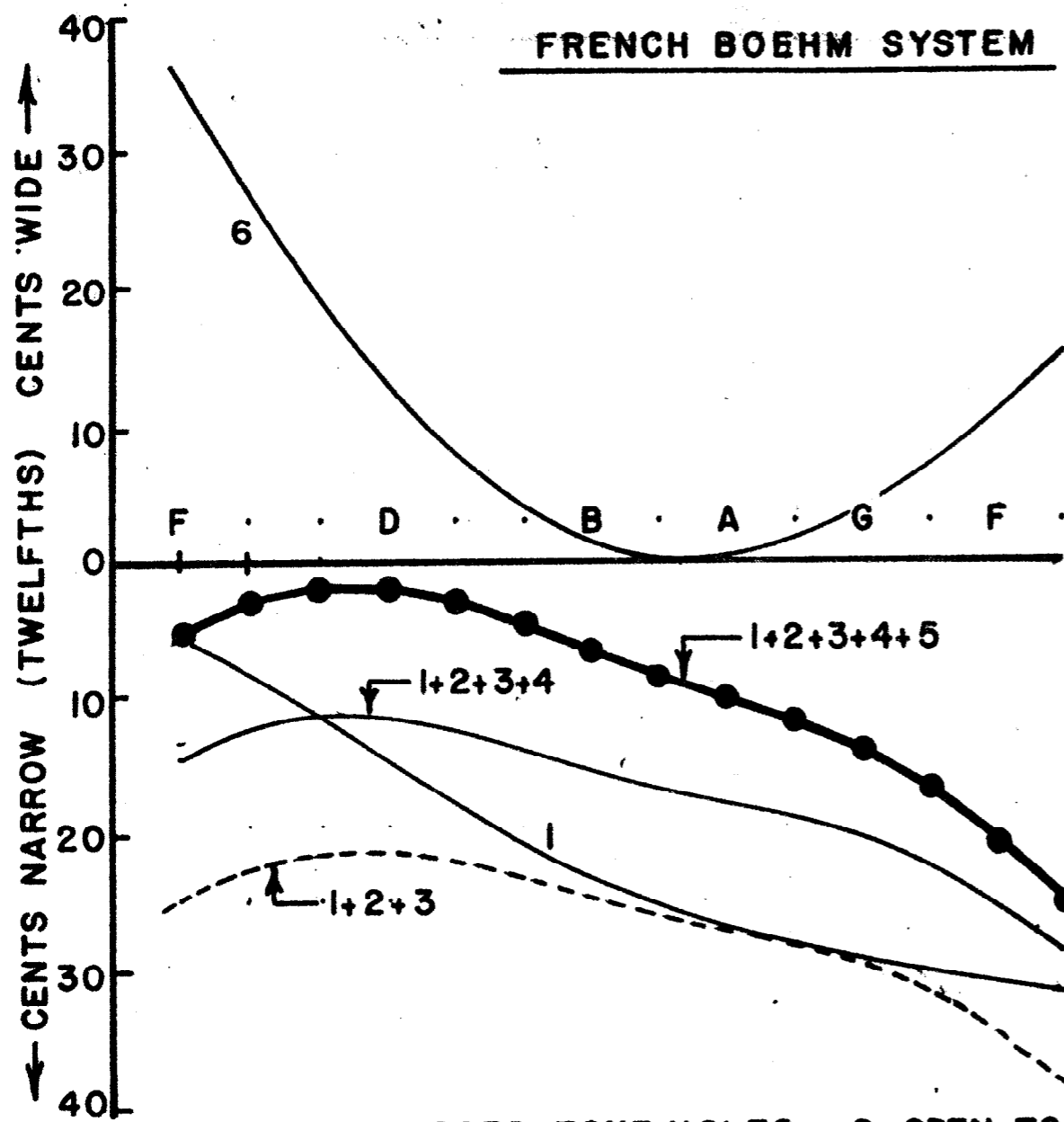




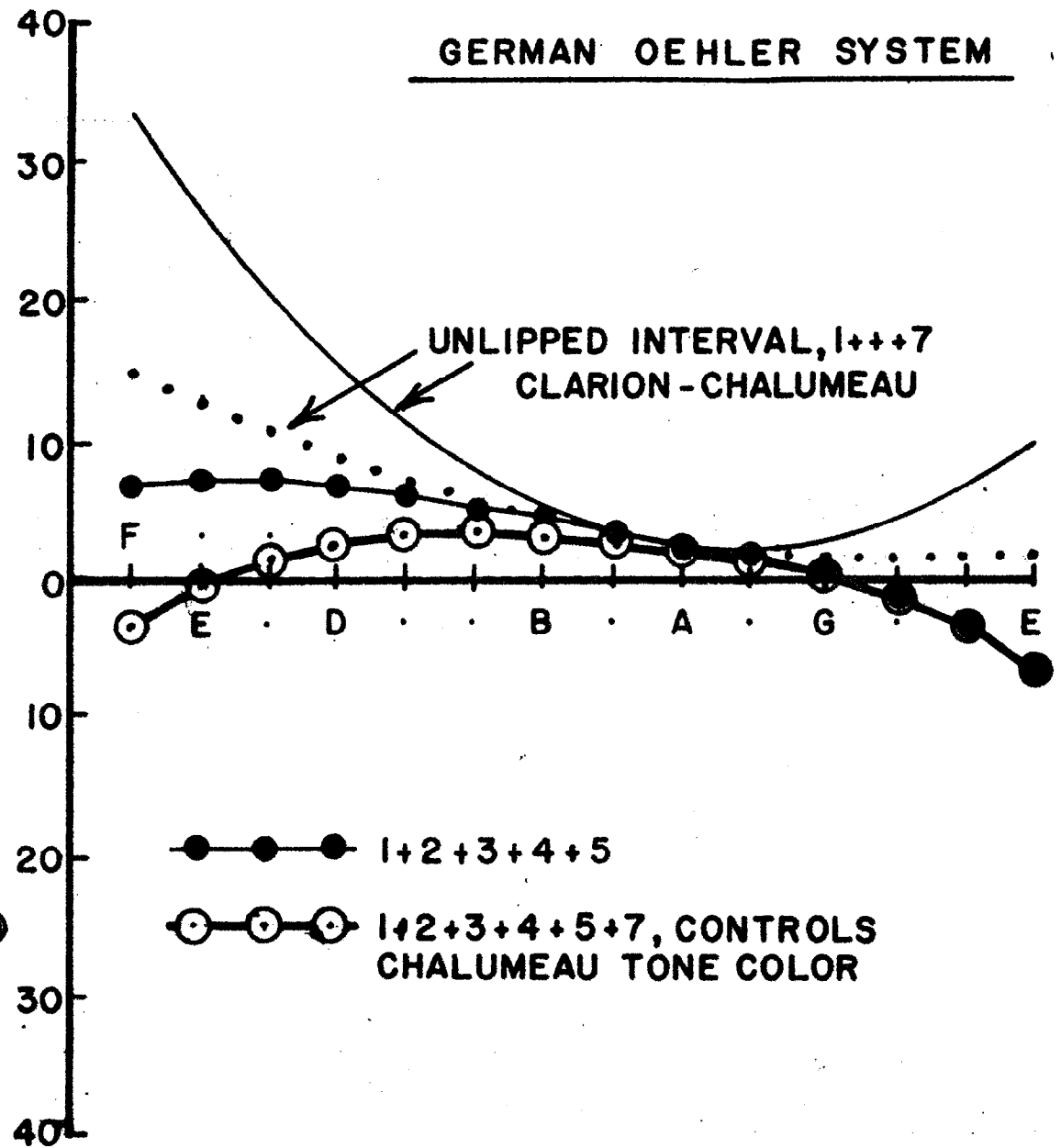
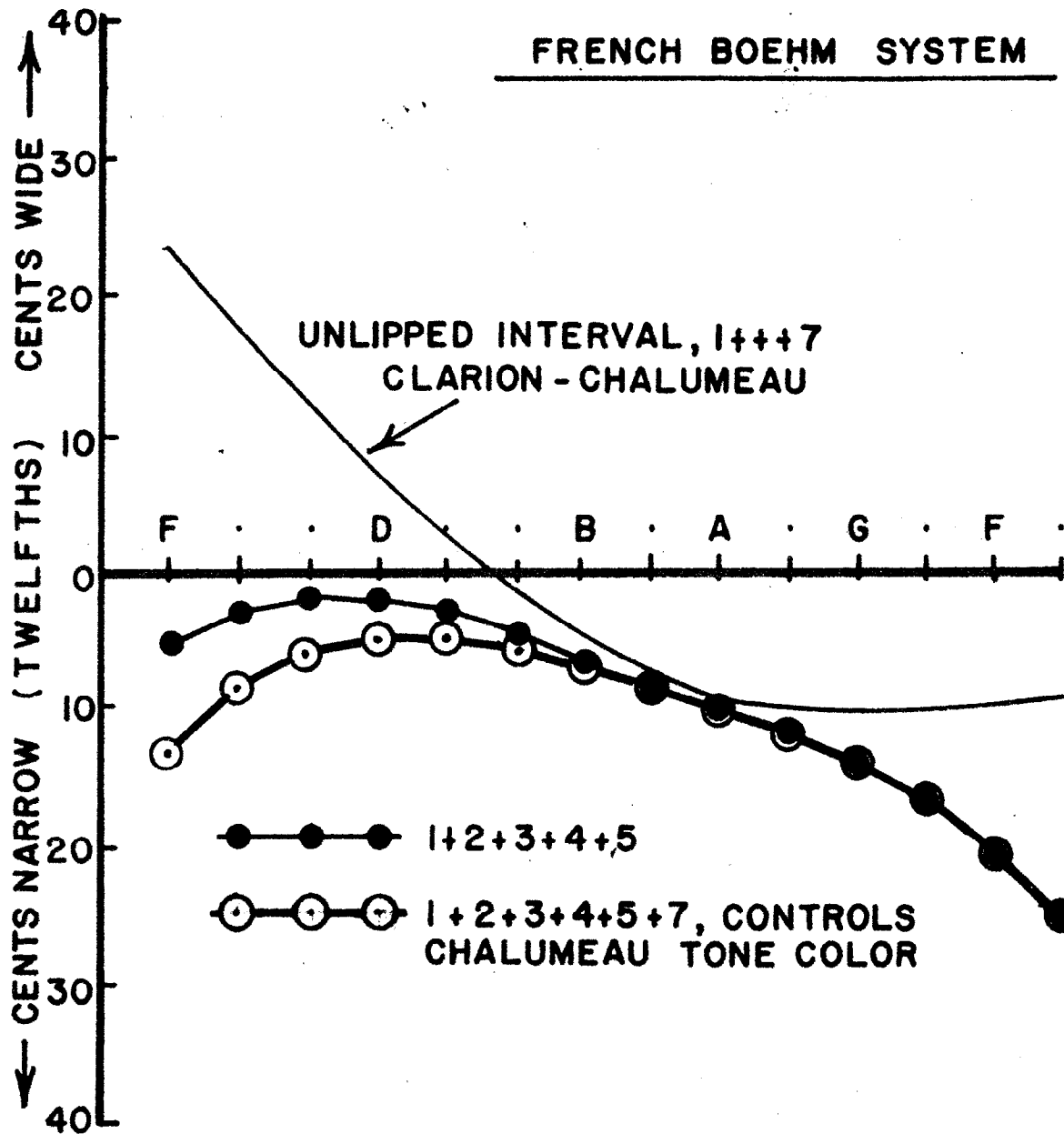




Reaming the bore
lowers the frequency
when this done in
the region marked F
raises it where it is
marked S.



1. CLOSED TONE HOLES 2. OPEN TONE HOLES 3. BELL FLARE 4. BOUNDARY LAYER
 5. REAMING OF UPPER BORE (BOEHM, CONE - OEHLER, CYLINDER) 6. REGISTER HOLE



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5. REAMING OF UPPER BORE (BOEHM, CONE - OEHLER, CYLINDER) 6. REGISTER HOLE
7. REED DYNAMICS AND MOUTHPIECE CAVITY

