Starnberg, 2022

Methodical instruction to adjust if strings rattle

Parts in the sketch:
1) Action plate 2) Stationary nut 3) Disc with left thread 4) Adjusting screw with right thread 5) left thread on axle tree 6) Axle tree 7) Axis bearing 8) Thread pin 9) Spring foil 10) Spring 11) Fork pins

Explanation of the sketch:
A) The string is running to straight between the pins of the disc.
Result: string rattles.
B) Correct pressure.
C) Too much pressure of the disc to the string.

If you hear buzzing of a string during playing, the reasons may be various. Firstly it can be that the string pressure at the axis bearing is too little. Secondly, the pressure of the disc is too little.

First remedy:
If the disc bends the string enough, as shown on drawing B, check the disc pressure.
Put two fingers on the fork pins and try to push the disc, compare with neighbor discs. If the pressure is too little, turn the thread pin (8) a little bit to the right side, till you feel a stronger pressure. The disc however must always move back. Compare the pressure with other discs once more.

Second remedy:
As you see on the sketch, the disc brings a definite pressure to the string (drawing B).
If the pressure is as shown on drawing A (too little), put at first the pedal back in the flat position. To loosen the disc, take a screwdriver between the fork pins near the screw and turn the disc to the left side. Thereby the adjusting screw (4) can get loose. After you have turned the disc a little bit, try to tighten the adjusting screw by turning to right. If you move now the pedal, you will probably see a stronger bending of the string. When it looks like drawing C, take the screwdriver again between the fork pins and turn the disc
a little bit to right. In this case, the adjusting screw will tighten itself. But check it. If you are not satisfied with this correction in the first time, do it again. An improvement will be certain.

To adjust discs with one pin you always have to loosen at first the adjusting screw (4).
It doesn't matter if you want more or less pressure.

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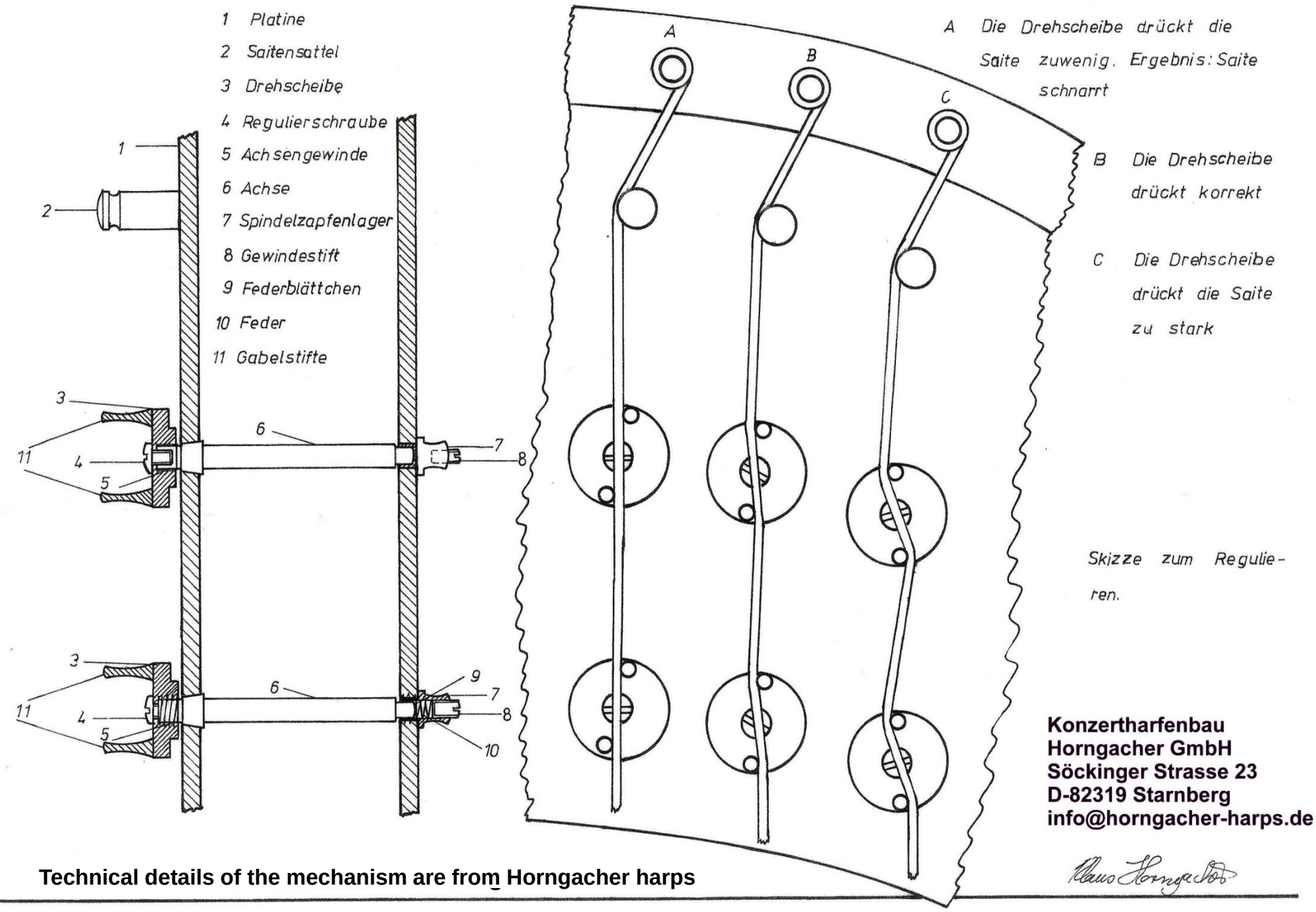

Technical details of the mechanism are from Horngacher harps