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The comfortable working method

B/S[®] SPANGE Classic



With magnetic applicator

Brace system for the correction of ingrown toenails

Using a leaf spring to regulate ingrown toenails – this innovation was first presented by Bernd Stolz 25 years ago. His groundbreaking idea and its physical principle of function have proven themselves ever since. Basically the system cannot be improved because the force of the leaf spring is the most natural and nail-protecting way of giving an ingrown toenail its normal shape back and making it healthy again. Therefore, it is only possible to make effective improvements to the application technique or the quality of the materials used. And this is exactly what inventor and podiatrist Bernd Stolz has managed to do. Just in time for the 25th anniversary of the B/S-brace, the Bernd Stolz Company presents this new brace technology with its even more comfortable working method.



The B/S magnetic applicators

The magnetic applicator – one principle and many advantage

It's in the nature of things: an improvement of a tried-and-tested technique brings with it a change of working method. These instructions are intended to give the user a pictorial demonstration of the optimized sequence of application for this new

design of B/S-brace Classic with magnetic point and the innovative magnetic applicator. Most importantly, the application sequence of the B/S-brace with these new technical qualities is even easier, even quicker, even safer and even more perfect. To put it plainly: from now on everything is simply effortless!

The reasons for this are not only the technical changes to the B/S-brace Classic itself but also to the multiapplicator. Specifically: from now on the B/S-brace Classic has a magnetic point at the centre of the brace. At the same time, each applicator is equipped with a magnet. This makes it even easier and less complicated to use – from now on the B/S-brace



B/S-brace with magnetic point

can be picked up with the magnetic applicator and fixed in place with it; there is no need to hold the brace any other way. This makes it possible to place the B/S-brace on the nail starting from the centre of the nail – as with the previous applicator made of steel – or, as with the previous multiapplicator, to work from one edge of

The comfortable working method



1. Preparation of the nail



2. Degreasing the nail



3. Measuring from the side of the nail



4. To the other side of the nail



5. Grinding the ends of the brace



6. Applying the B/S-activator

the nail to the other. This can be done in one movement, without turning the applicator around.

The usual routine method of working still applies and will be improved further.

Careful preparation of the nail which is to be treated

Expert nail care is the basis for achie

which is causing pain is the best way to achieve the best effect. The brace should not come into contact with the skin. In order to do this properly, place one tip of the magnetic applicator at the exact edge of the nail where the B/S-brace is to be fixed. Without slipping, roll the

magnetic applicator. Then place the B/S-brace on the magnetic applicator so that the magnetic point faces the applicator.

With the B/S-brace bonded this way to the magnetic applicator, there are two ways of applying adhesive

Alternative methods of applying B/S activator and B/S-Basic adhesive



7. Applying the B/S Basic adhesive



6a Applying the B/S activator



7a Applying the B/S-Basic adhesive

the best result, so nails which are exceptionally thick should be ground thinner. Further, foot baths as well as use of disinfectant just before application of the brace should be avoided. The first step is to de-grease the nail with B/S cleaner (pic.2).

Choosing the right size of B/S-brace Classic and sticking it across the whole nail 1-2 mm behind the part

across the width of the nail to the opposite nail bed. The width of the nail indicates the correct size of brace (pics.3-4).

The correct size of B/S-brace should be ground thinner at the ends, on the side of the brace without the magnetic point. This can be done with the

(pics.7 and 7a) and also two ways of applying activator (pics.6 and 6a). Meaning: B/S-Basic adhesive can be applied to the whole of the B/S-brace and then of course the activator is applied to the nail. Or, the opposite way round, activator is applied to the B/S-brace and B/S-Basic adhesive to the nail. Whichever way is chosen, activator should always be applied before the adhesive. Be sure to apply

The comfortable working method



8. Application of the B/S-brace on the left edge of the nail, press in place for about seven seconds



9. Roll the brace across the nail



10. To the opposite side of the nail, on the right, and press in place for another seven seconds



8a Application from the centre of the nail, press in place for about seven seconds



9a Then press in place on the right for another seven seconds



10a Press in place on the left, wait another seven seconds

a thick layer of adhesive. After this the B/S-brace which is adhered to the magnetic applicator must be applied to the nail immediately as usual. This means – from one side edge of the nail to the other (pics.8-10) – or, as an alternative, from the centre of the nail to the right edge and then to the left one (pics.8a-10a).

If the version is chosen where activator is applied to the nail then the whole nail, including the B/S-brace, must be cleaned, using a swab moistened with B/S cleaner. Wipe this across the nail – this removes the magnetic point from the brace as well as the activator from the nail plate. Then level off the joins between the B/S-brace and the nail; when grinding a B/S-brace use only a diamond or corundum grinder.

Individual correction of the tension

As long as the patient does not feel any pulling pain then the tension is perfect. Ask the patient specifically about this as it is easy to regulate. If the patient feels an uncomfortable

pulling pain or if the natural reset forces of the B/S-brace are too strong, grind the brace thinner at the ends (pic.11). Alternatively, the whole of the B/S-brace can be ground thinner.



11. Levelling out the joins

Finally, with this method of application is it necessary to seal the whole of the nail and the B/S-brace with B/S-Basic adhesive.

Final sealant for a perfect finish

Seal the whole of the brace and the nail with B/S-Basic adhesive to make it secure and water resistant. This is similar to applying nail polish. Clean the nail as well as the applied B/S-

brace beforehand, using B/S cleaner.

However, should B/S-Basic adhesive be applied to the nail instead of activator then it is no longer necessary



12. Removing the B/S-brace

to apply a final sealant. In this case, however, before levelling out the joins of the brace edges or making any necessary corrections to the tension, it is essential to wait for the B/S-Basic adhesive to dry. This takes about four minutes. Once the B/S-Basic adhesive is dry, wipe off the magnetic point using a swab moistened with B/S cleaner. It is still possible to apply a final sealant if desired.

The perfect finish is much easier

The usual nail care using a plug, disinfectant or salve dressing is quite possible. The nail can also be lacquered.

As can be seen in the pictures, application of the B/S-brace is no longer made complicated by using fingers or a pair of tweezers. It is also no longer necessary to turn the magnetic applicator around. All this makes application much easier and more secure.

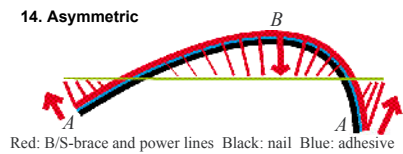
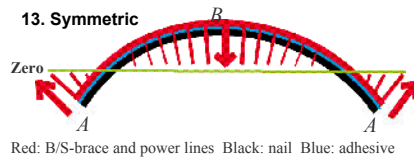
Strong material and a logical operating principle

The B/S-brace Classic is made of special synthetic glass fibre and is ground exactly with an accuracy of 2/1000 mm. This material complies with the high, specifically defined criteria for firmness and elasticity as well as for individual fitting by the user. Computerised testing of the bending strength as well as the adhesive power is therefore standard. The brace, which is made in six sizes, works same way as a leaf spring. This means that by applying the flat brace to the curved ingrown toenail, the brace's own resetting forces are transferred to the nail. The logical result: the nail is gently but carefully lifted out of the nail fold. The physical laws of pressure and counter pressure automatically work correctly, especially as the traction of the brace can be reduced slightly as needed. This is done by grinding the brace thinner at certain points according to the principle: the smaller the material thickness, the lower the traction!

How the B/S-brace works

The B/S-brace is made of Duroplast strengthened with glass fibre. It is stuck across the nail and works according to the physical law of pressure and counter pressure, like a leaf spring. The resulting elastic forces at the ends of the B/S-brace lift the side of the nail out of the nail fold. The induced counter pressure positions itself automatically in the right place which is at exactly the highest part of

the nail. Basically it is subject to the shape of the nail. And this is why the B/S-brace works perfectly. By sticking the whole of the B/S-brace to the nail, the forces (traction and counter pressure) work extremely well, meaning they are spread across the whole nail as intended. Specifically: the most tensile force occurs at the ends of the B/S-brace (A). This lessens continuously up to the 0-value of the line of force. Then the counter pressure on the nail is built up now and then, towards the centre, up to the highest point of the nail (B) (pics.13 and 14).



With the B/S-brace it is possible to use the unique and easy method of grinding it thinner at certain points, mostly at the ends of the brace, thus adjusting the forces to obtain the best, pain-free correction of the nail. The B/S-brace follows a classic principle of physics: slight bending = slight force, strong bending = strong force.

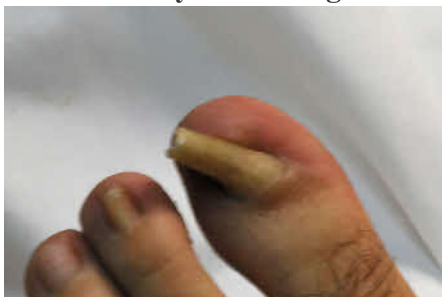
For the record: the B/S-brace Classic is already known as a high quality product in over 30 countries. Combined with the magnetic applicator, further sales opportunities will arise. For a system which can currently be classified as the ne plus ultra of medicinal nail brace technology.

Treatment of a purulent ingrown nail



Result after eleven months with eight B/S-braces

Treatment by the colleague Mrs. Mercuri from Greece



Badly rolled up nail



After twelve months with 13 B/S-braces