Our Commitment and What is New at LeoneAmerica

Effective April 4th, 2008, Emilio Pozzi is the new CEO and President of American Tooth Industries. He will also coordinate the activities of the orthodontic division, Leone America, along with the National Director of Sales, Kory Carman. I shall remain in the company as the CFO and marketing consultant. This new management organization was announced a few years ago; however, it is now in effect. Emilio has an extensive knowledge of the Italian factories that we represent in the United States, Puerto Rico and Canada and he has been a director of the US manufacturing company for a long time. Our commitment remains to deliver the best quality product at a competitive price. With our factory and centralized warehouse here in California and our national sales office in Arizona, we will continue to serve our customers in the most effective way.

We are also proud to introduce you again to the Slide Ligature, the New Logic Line of brackets and our new catalogs. My very best to our patrons.

Combination Technique 1976 vs 2008

By Stuart Messinger, D.D.S. and Gregg Tartakow, D.M.D.

Utilizing Leone’s Revolutionary “Slide” Ligature

INTRODUCTION

Dr. Maxwell S. Fogel and Jack Magill introduced the combination technique in the 1960s. The philosophy was based on combining the Begg lightwire and Tweed edgewise techniques to produce a system that could move teeth quickly and easily, and produce board-quality results. It consisted of using the Begg concept of light-continuous forces to unravel anterior teeth, open bites and reduce protrusions without straining posterior anchorage. Begg produced light-physiologic forces through the use of one point contact of the tooth to the free-sliding archwires. This was followed by the edgewise technique to level the arches and obtain proper uprighting and axial inclinations of all teeth. While the combination technique was primarily an extraction technique, it was also capable of obtaining fine results in non-extraction cases as well. Dr. Fogel and Magill introduced the second-generation combination bracket, which featured a self-ligating attachment to correct malocclusions.

Continued on page 2

Leone Orthodontic Mini Implants - Easy Removable™

LeoneAmerica introduces the Leone FDA approved mini orthodontic temporary implant line. The Leone implant is made of 100% surgical grade stainless steel, preventing Osseointegration. The implants are available with a hole for the connection of elastic chain or springs. A modified grooved implant allows for the additional use of c-spool and elastics. Four different implant heights are offered with two implant circumferences. The Leone system incorporates a system using drills with corresponding sized implants allowing for a more precise and stabilized placement. For more information, contact LeoneAmerica, a division of American Tooth Industries, at: (800) 242-9986
The success of the bracket was hindered by the deficiencies in metalurgy technology. The locking mechanism fatigued after a few adjustments, and the availability of light memory wires had not yet appeared, necessitating frequent wire changes. Still, the concept was sound. The combination technique stood its followers in good stay well into the 90s and was modified by many of its proponents. By the 90s, most orthodontists were practicing some form of the lightwire edgewise technique using pre-torqued, pre-angled bracket systems.

In the late 90s, Damon introduced a version of the self-ligating orthodontic bracket. Self-ligating brackets have become the new buzzword in orthodontic treatment. The truly revolutionary concept, I believe, however was in the Damon Philosophy of tooth movement. He proposed a bracket-wire system, which could produce physiologic tooth movement. Self-lighting systems use small-gauge memory wire arches in large bracket openings to produce these physiologic force systems. The key is to use ligation, which will allow for free-sliding mechanics. This combination of light forces and non-friction sliding mechanics move teeth without causing rear resorption. Cases are finished in edgewise wire to achieve final root positioning and axial inclination.

Andrew Haas showed that when using a widened Kloen headgear, the non-banded cusps and bicuspids moved laterally independent of any outside force. It was the tongue pressure, absent the buccal force of the cheeks that produced the physiologic tooth movement. This tooth movement is similar to what happens when a lip bumper is used. This movement is physiologic and occurs without pain. The use of conventional elastic modules produces too much friction to produce the light forces needed for painless physiologic tooth movement. Using these elastics diagonally across a twin-edgewise bracket significantly reduces the friction, but gives up rotational control. Using metal ligatures the standard way decreases the friction compared to fully engaged elastic ligatures. But these ligatures produce more friction than diagonally tied elastic ligatures.

.010 memory wire has the property of extreme flexibility and very low deformation even over short activation distances such as derotating anterior or pre molar teeth. These extremely light wires are capable of delivering enough force to mal-aligned teeth to produce initial extrusive and rotational corrections rapidly and with little or no pain.

Teeth remain in place because of equilibrium among the oral musculature. Anything that disrupts this equilibrium will allow the teeth to move. When a very light resilient wire is ligated into a crowded dentition, the wire attempts the return to its original shape. If the wire is tied tightly to the teeth, the force will be transmitted as reciprocal forces between individual teeth in the arch.
Any extraneous forces are controlled through anchorage. If you are bringing in high cuspids, and the anterior teeth are tied tightly to the arch, the cuspids will move down in response to the force transmitted from the arch. The lateral incisors will also move off the occlusal plane in response to the same force. This untoward force leads to a skewed anterior occlusal plane. However, if the arch wire is free to slide through the brackets in a near-frictionless environment, the reactive forces to the teeth are dissipated through the wire and not the teeth. This then minimizes the anchorage requirements. It is the light force of the small-gage wire that produces the physiologic force to the teeth. It is the oral musculature that maintains the labiolingual and buccolingual positions of the teeth.

These physiologic forces also produce rapid tooth movement since there are little or no rear resorptive processes going on. In an effort to show a technique which produces rapid tooth movement and very little or no pain, the following protocol is used.

**TECHNIQUE**

.010 memory wire is ligated to twin edgewise brackets using the Leone Slide™ “No Friction” Ligatures. Because the wire is extremely flexible, the archwire can easily come out of the molar tubes. If possible, stops should be placed distal to the tubes. Long inter-bracket space is not recommended since the wire will flex and sometimes break or come out of the tube. However, since the reactive forces are so light, it is sometimes possible to cut the wire mesial to the molars and place a stop there. This initial wire can be left to work for six to eight weeks. At the next visit, individual anterior rotations can be ligated on the four wings of the bracket with stainless steel ligatures if needed. Once the .010 or .012 wire cannot deflect in the bracket, an .014 arch wire should be placed to continue correction of rotations and uprighting. Changing from an .016 x .022 up to 017 x 025 can complete the rest of the leveling process.

*Slide™ is a product manufactured with a special polyurethane mix for medical use. It is applied similarly to conventional elastomeric ligatures. Once placed on the bracket, it creates a passive ligature on the slot that makes the archwire free to slide and to produce its effects on the dentioalveolar structures. This ligature is especially indicated for use with Logic Line™ brackets, which are featuring an housing to keep Slide™ ligature in place for integration in the bracket profile. The particular conformation of the Slide™ ligature considerably improves patient’s comfort during the first phases of treatment.*
Axial inclination of individual teeth. (Approximate time = 6 months.) In non-extraction cases, the final positions of teeth can be accomplished with .017 x .025, or .020 x .028 titanium molybdenum wire.

**CLASS 1 EXTRACTION**
Extraction cases can be divided into three stages:

1. **Stage I** - Bite opening, un-crowding, and leveling (6 months)
2. **Stage II** - Space closure (6 months)
3. **Stage III** - Final axial inclination. (6 months)

**Stage I** is identical to the nonextraction first stage. The .010 wire should go into the buccal tubes and a stop placed behind the tubes. In first bicuspid extraction cases, the upper and lower arches will begin to unravel and align without elastic force. The ultra light forces are in harmony with the physiologic forces and the anterior teeth do not tip labially. This is because the labial musculature and the tongue maintain the equilibrium and especially by using the Leone Slide “No Friction” Ligatures. The initial arch wire can work for three months with reactivation at six-week visits. If necessary, the wire can be enlarged to .012 or .014. Bite opening is accomplished in the same manner as in nonextraction. The use of retro-arches will also aid in bite opening.

**Stage II** is space closure and is started when an .017 x .025 titanium molybdenum wire is placed and space-closing springs are placed from the mesial of the molars to the cuspids. The forces should be light and physiologic, again with the use of the Leone Slide “No Friction” Ligatures. This will allow for space closure without mesial tipping of the molars and distal tipping of the bicuspid.

**Stage III** (final axial inclination of teeth) is completed with .018 x .025 or .020 x .028 titanium molybdenum wires and with the aid of the Leone Slide “No Friction” Ligatures.

**CLASS 2 DIVISION 1**
Correction of apical base class 2 malocclusions should ideally be addressed with growth modification appliances. These include extra-oral [(headgear) or Intraoral (MARA, Herbst, twin block)] appliances. In non-growing patients, AP discrepancies can be addressed in the final stages where elastics can be used without excess tipping. In non-cooperative patients, appliances such as jasper jumpers or forsis appliances can be used.

**CLASS 2 DIVISION 2**
These cases should be treated with non-extraction mechanics and AP correction appliances.
CLASS 3
Non-surgical cases are treated as growth modifying cases if treated early with protraction mechanics. In non-growing patients, masking approaches can include lower incisor extraction or lower bicuspid extraction.

ORTHODONTICS WITHOUT PAIN
“No pain, no gain” This is the slogan of bodybuilding. But does this have to be the slogan of orthodontic treatment? Thumb suckers, after all, rarely complain of pain even as the habit causes mal-positioning of the maxillary anterior teeth and in some cases, arch deformation. Can we achieve tooth movement without the concomitant pain associated with it? Certainly, by keeping forces within physiologic parameters, pain free tooth movement can be achieved very simply with the use of Leone’s Slide ligatures.

About the Authors

Gregg A. Tartakow, DMD, Associate Editor of Ortho Tribune, practices orthodontics, TMJ disorders and orofacial pain in Los Angeles, Calif., and resides in Marina del Rey, Calif. His professional accomplishments include Diplomate, American Board of Orthodontics; Fellow of the American Academy of Orofacial Pain, Royal Society of Medicine (London, U.K.), Pierre Fauchard Academy and World Federation of Orthodontists; Member of the American Dental Association and American Association of Orthodontists. His academic appointments include Clinical Associate Professor, Orthodontic Department, Craniofacial Sciences and Therapeutics, University of Southern California, School of Dentistry, Los Angeles. Dr. Tartakow has published more than 25 independent and original articles.

Dr. Stuart Messinger received his undergraduate training at Temple University in Philadelphia and his DDS degree from Temple University School of Dentistry in 1969. He spent two years in the United States Army. In 1971, he began his three-year Orthodontic Residency Program at the Albert Einstein Medical Center, Department of Dental Medicine, Philadelphia, Pa. He graduated in 1973. He has been on the teaching staff of the Einstein Medical Center since 1973, and has been in private practice for 35 years. For the past 12 years, he has been a volunteer at the Dental Volunteers for Israel in Jerusalem, a free dental clinic serving needy families — Jewish, Muslim and Christians — living in Jerusalem.

Contact
Gregg A. Tartakow, DMD, 4712 Admiralty Way, #675. Marina del Rey, CA 90292 Phone: (310) 728-9230 • E-mail: GAT0925@msn.com

Dr. Stuart Messinger, 731 Wynnewood Road, Apt. 18. Ardmore, PA 19003 Phone: (610) 356-8100 • E-mail: stmessin@verizon.net
Introducing LeoneAmerica's Logic Line Brackets

A new design for optimum use with SLIDE™ Low Friction Ligatures

The brand new Logic Line™ brackets combine the most recent evidence-based studies on low friction biomechanics with the reliability and ease of use of the tried and tested twin brackets. This innovative bracket allows the clinician to use either Slide™ low friction ligatures or conventional ones, making such versatile therapeutic options as low, high (or even combined) friction easily available, depending on the phase of treatment. Treatment times will therefore be quicker and patient satisfaction complete.

The era of "Logic" Orthodontics has arrived!

*International Patent Pending

Available in the Roth and STEP prescriptions.
Total biomechanic versatility

The new Logic Line™ brackets, due to the large mesio-distal dimensions and the twin tie-wings, can be used with conventional ligatures, for maximum biomechanical control during the appropriate phases of therapy. Further options are available to the clinician seeking optimum anchorage and biomechanics. It is now possible to use low and high friction in selected areas of the arch, upper and lower, or independently.
Logic Line™

Also available cosmetic clear!

Cosmetic Orthodontics needs quick, aesthetically pleasing and comfortable solutions. The new cosmetic clear Logic Line™ brackets, developed to be used with Slide™ low friction ligatures, provide all the answers.

Special wing and body design for ideal use with Slide™ ligatures.

Made using a microfilled copolymer, that makes the bracket mimetic with any tooth colour shade.

Excellent biomechanical properties, biocompatibility and resistance to oral liquids have been maximised.

Special high retentive micro-cell design of the base ensures a widest contact area with the adhesive for a better clinical efficiency.

*International Patent Pending
Leone's **STEP** system is a straight wire technique developed by internationally-known orthodontists, Drs. Arturo Fortini and Massimo Lupoli. Their clinical experience, combined with Leone's productive capability, made possible the development of a unique system that would be able to manage friction depending on the phase of treatment. The clinician can now choose the most advantageous biomechanics simply by applying **Slide™** ligatures, in total freedom to choose where, in what direction and for how long to use light orthodontic forces that stimulate tooth movement, for example only in the upper arch, only in the anterior region, and so on.

This will allow the orthodontist to benefit from advantages normally offered only by a self-ligating bracket system, without difficulties of using complicated, bulky brackets that can be difficult to manage with success. Orthodontist can also get full three-dimensional control of forces, achieved by using normal ligatures when needed. This is versatility!

The **STEP** prescription, derived from the **MBT™** technique, employs a specific archwire sequence based on the amount of friction generated by the relation between interaction of wire and bracket slot.
### Logic Line

**STEP & SLIDE LOGIC LINE™**

**INTRODUCTORY KIT**

The kit contains all the components necessary to test the **STEP Logic Line™** system in the initial alignment and leveling phases of treatment.

**Kit content:**
- 1 case (20pcs) **.022"** STEP Logic Line™ metal brackets
- 1 **MEMORIA™** upper round archwire w/ "V" bend Ø .014"
- 1 **MEMORIA™** lower round archwire w/ "V" bend Ø .014"
- 4 **Slide™** ligature modules (24pcs) medium silver
- 2 **Slide™** ligature modules (12pcs) small silver

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**LEONEAMERICA™**

**ORTHODONTIC DIVISION**

**Orthodontic Division of American Tooth Industries**

Products above sold thru LeoneAmerica™ a division of American Tooth Industries.
LeoneAmerica is introducing its new Swivel Endoral Key (A0558-00). This unique design features a special thumb grip for easy activation. The wire is angled properly for easier control and activation. In addition, the wheel is self stopping for controlled activation. The patient can actually feel when the turn is complete and it is time to place the key into the next slot of the Rapid Palatal Expansor. A partial enclosure of the wire in the handle prevents dislodging of the key from the tip.

For further information contact LeoneAmerica, a division of American Tooth Industries, 501 W. Van Buren #5, Avondale, AZ 85323. (800-242-9986).

LeoneAmerica Releases new OrthoMart Quantity Discount Catalog

LeoneAmerica, a Division of American Tooth Industries, has released a new quantity discount OrthoMart catalog geared towards the Orthodontist. It contains the latest product information on our brackets, bands, and Slide Ligature Pads. In addition, new products not shown in our previous catalogs will be featured such as the longer armed Torko Expanders, with increased arm length for easier torque control.

For a free copy of the Orthomart, or for more information contact LeoneAmerica, a Division of American Tooth Industries, 1200 Stellar Dr. Oxnard CA. 93033, 800-242-9986 or leoneamerica@americantooth.com
A common problem in clinical orthodontics is a transverse discrepancy of the upper arch in the anterior segment, associated to good relationships of the side segments. These cases can present mild, moderate or even severe crowding in the front part of a generally V-shaped upper arch, usually with palatal displacement of the lateral incisors and high-labial ectopic canines (Figure 1).

The ideal therapy for this common problem in the growing patient is a change in arch form by means of a selective orthopedic expansion of the anterior part of the maxilla, avoiding changes in the posterior relationships. For this purpose the design of the orthopedic device is of utmost importance, as a normal hyrax appliance would deliver the same amount of expansion in the anterior and the posterior segments of the upper arch. With the use of the “Spider Screw” (Leone s.p.a., Firenze, Italia), a fan-shaped rapid maxillary expansion screw (Figure 2), it is possible, controlling the length and inclination of the arms of the device and the position of the hinge, to obtain an anterior selective expansion and to successfully face these clinical daily problems.

The management of the appliance is very simple. An alginate impression of the upper arch is taken after four bands are fitted on the first premolars and the first molars. The device is constructed by the laboratory technician and cemented like a normal hyrax. The activation of the screw is performed daily with two turns, one in the morning and one in the evening, as in every rapid maxillary expansion protocol, for a variable number of days according to clinical requirements (generally two weeks, which correspond to approximately 7/8 mm transverse expansion at the premolar level). The screw is then blocked with a brass wire (Figure 3) and the device is maintained in place for 20 weeks to allow new bone formation following sutural opening.

During these weeks following expansion it is possible to start the alignment of the upper incisors by means of fixed appliances, and after removal of the device full-arch fixed appliances can be used for levelling, aligning, major mechanics and finishing of the occlusion (Figure 4).

By Dr. Cesare Luzi
Proper knowledge of the patient's problem list allows to define the correct treatment goals and to take advantage of the indicated appliance. The "Spider Screw", constructed following precise rules as to the length and inclination of the arms and to the position of the hinge, can allow the clinician to obtain selective skeletal expansion in the anterior part of the upper dental arch, and to solve upper anterior crowding situations without the necessity of extracting teeth (Figure 5).

Case Treated by Dr. Cesare Luzi at the Department of Orthodontics, University of Aarhus, Denmark.

About Dr. Cesare Luzi:

Graduated as DDS from the University of Rome “La Sapienza” in the year 2000. Postgraduate degree in Orthodontics and “Master of Science” at the Department of Orthodontics, University of Aarhus, Denmark, 2005. Founding member and first President of the EPSOS (European Postgraduate Students Orthodontic Society), member of the EOS (European Orthodontic Society) and of the SIDO (Italian Society of Orthodontics). Winner of the Houston Research Poster Award of the EOS (Vienna 2006) and of the First National SIDO prize for clinical research (Florence 2006). Private practice in Rome, Italy.

LeoneAmerica Releases new OrthoLabMart Quantity Discount Catalog

LeoneAmerica, a Division of American Tooth Industries, has released a new quantity discount OrthoLabMart catalog geared towards the Orthodontic or full service laboratory. It contains the latest product information on our full Leone Expansor screw line. In addition, exciting never before seen products such as our Malibu kits with free prewelding services will be presented.

For a free copy of the OrthoLabMart, or for more information contact LeoneAmerica, a Division of American Tooth Industries, 1200 Stellar Dr. Oxnard CA, 93033, 800-242-9986 or leoneamerica@americantooth.com
LARRY D. CROSS
DDS, MSD, INC. / ORTHODONTICS

June 5, 2006

American Tooth Industries
Mr. Bruno Pozzi
1200 Stellar Drive
Cerritos, CA 90703-2404

Dear Mr. Pozzi:

I have been using “Slide” ties for about six months. I am amazed, on a daily basis, of how fast tooth move when tied in with “Slide” ties. Desired tooth movements require 1/2 to 2/3 less time. Parents and Patients are commenting on the short time to see such dramatic improvements.

Thank you for producing the “Slide” tie. It has made treatment faster, easier and more rewarding.

Sincerely,

Larry D. Cross, DDS, MSD.

November 19, 2007

Leona America
501 W. Via Buno
Suite 5
Avondale, AZ 85323

Dear Sir:

I have been using Duo ceramic bracket system for approximately 1.5 years. I have had extensive experience with the 3-M Unitek Transbond and Transbond brackets since the mid 1980s. I feel that your aesthetic translucent ceramic bracket system is of equal quality, both in aesthetics, durability, ease of wire ligature and accuracy of prescription as the American counterparts.

I have been very pleased with the final outcomes of my orthodontic cases and have found the bonding procedure to be quite easy. The ease of control of the lower incisor brackets is exceptional. My plans are to continue using your bracket system.

Sincerely yours,

Michael Healey
Michael P. Healey, D.D.S.
Atlanta, Georgia

James Watson
James Watson Orthodontics
4027 Lombard Ave.
P. Waco, TX 76707-1412
Ph: 888.917.333
Fax: 888.917.333
E-mail: jwcor@jwcor

December 13, 2008

Dr. Watson,

I was very pleased with the Leona Transbond talk I have recently watched. Since I love the kind of PPE’s selection is a very standard choice and have found Leona’s Transbond are great. I feel better choices provide a distinct advantage.

Sincerely,

Dr. James Watson,

James Watson Orthodontics
4027 Lombard Ave.
P. Waco, TX 76707-1412

November 18, 2005

Leona America
501 W. Via Buno
Suite 5
Avondale, AZ 85323

Dear Leona America,

I have been using Leona Slide plus for about a year. When using sliding cox mechanics, we had been using our slide plus time needed to be ligature wire slides. Since using the slides, our sliding mechanics have been more effective. We continue to test this product, but we have not performed research to document this clinical observation.

Respectfully,

Dr. Mireles
David R. Mireles DDS
4099 East Buchanan, P.O.
San Antonio, TX 78222
Fabulous Opportunity
Purchase standard size special technique brackets at best value
Call us for immediate quote. 1-800-242-9986

Metal injection mold brackets. Excellent Design, made by Leone.

Roth System Ricketts System
- .018 or .022 slot size.
- Kits available with no hooks, or with hooks on cuspids and second bicuspids.
- Standard Size

Boston System
- .018 central and laterals only. .022 on all other teeth.
- Kits available with or without hooks (cuspids only).
- Standard Size

Super Edgewise System
- .018 or .022 slots.
- Kits with or without hooks (cuspids and second bicuspids only).
- Vertical Slats.
- Standard Size

Andrews System
- .018 or .022 slots.
- Kits with or without hooks (cuspids and second bicuspids only).
- Standard Size

Tweed System
- Available in .018 or .022
- Available without hooks only.
- Standard Size

Burstone System
- .022 slot size only. Available with hooks or without (2nd bicuspids only).
- Standard Size

Leone’s Universal Face Mask
An Alternative to Surgery
Leone introduces its newest version in face masks, the Leone Universal Adjustable face mask. The face mask is fully adjustable with both vertical and horizontal adjustments. Elastomeric hooks are adjustable with set screws instead of in a standard locked position allowing the doctors the most custom fit in the industry. The Leone face mask is also recyclable with replacement forehead and chin pads of soft leather available. The frame is made from surgical stainless steel with non-toxic acrylic. Used for treatment of maxillary insufficiencies or prognathism of the mandible and cleft palate.


The majority of the products in this newsletter are manufactured by Leone in Italy under strict quality control (ISO certified). All other products are made in the U.S. by ISO certified companies including American Tooth Industries

2008 Leone Catalog
LeoneAmerica announces the release of the Leone 2008 orthodontic product catalog containing 184 pages of product information. On May first, 2008 one of the new products featured in this catalog is the innovative Logic Line™ bracket system. Logic Line™ is a unique bracket system that incorporates the use of a low friction treatment plan without the use of costly-capped brackets. When high friction treatment is desired, the bracket can easily be converted with the use of a standard ligature tie. A second new product will be Leone’s first non-metal buccal tube that will be both aesthetic and hypoallergenic. For more information, contact LeoneAmerica, a division of American Tooth Industries, at: (800) 242-9986
Introducing Great New Products at LeoneAmerica

The new LEONE Logic Line™ brackets are designed to be used coupled in the most advantageous way with Slide™ low friction ligatures during the initial alignment and leveling phases of treatment.

Slide™ ligatures, when used with the new brackets, are kept safely in place and integrated in the bracket profile due to the housing in the bracket labial side.

Logic Line™ brackets are made with MIM® technology, using biomedical stainless steel. The 80-mesh pad ensures ideal retention with any adhesive available today. FDI-approved i.d. # is laser marked and clearly visible.

Slide™ low friction ligatures can be easily applied to the new brackets using a simple, two-stage procedure.

Apply Slide™ low friction ligatures in the open position.

Position archwire inside the slot and close Slide™ low friction ligature down (no special instruments are required).

American Tooth Industries’ Mission Statement

Our family of brands: Justi, Pozzi, Major, Leone and Regal carries an old motto of our company “Simple inventions last forever.” Using the tools of their forebearers, the human eye and hand, our craftsmen carry on the American Tooth Industries’ tradition of excellence. We are delivering quality products at a fair market value and we shall continue to do so.