

INTEL® AND THE VECTORED PNEUMATIC JOINT SEPARATOR

Along with the computerization of the Posture Pump, the Posture Pro Corporation is announcing a major breakthrough in pneumatic technology for lubricating and shaping the thoraco-lumbar/lumbar spine. This new technology is designated in a pending patent application as a "VECTORED PNEUMATIC JOINT SEPARATOR." The patent application describes an apparatus consisting of dual pneumatic cells which "lift the lower spine into a lordotic configuration and then elongate the lordotic arc while the joints remain angularly separated."

The patent goes on to explain the need for such technology: "The lumbar and cervical curves of the spine normally define forward curves of about 35 to about 45 degrees whereby weight is distributed relatively evenly on individual vertebral surfaces and discs. In individuals with lost or reversed cervical and lumbar spinal curves, due to injury, illness, habitual micro-trauma or simply poor posture, the weight of the body bears forward on the soft, non-bony intervertebral discs causing the discs to wear and degenerate. Over time, these individuals exhibit a significant loss of natural joint movement. Lack of natural movement in the spine over time causes a reduction in the imbibition of nutrient rich fluids that normally lubricate and maintain flexibility of the spine. Without this seepage of fluids into the spinal column, the discs will further dehydrate, which may result in further loss of mobility, crippling and possible nerve damage. It is further noted that the intervertebral discs' indigenous vascular fluid supply disappears at approximately 20 years of age. Thus, active nutrient transport of fluids surrounding the spinal column is particularly important to maintaining spinal health of adults."

"The present invention provides an improved apparatus and method for maintaining spinal health which utilizes a dual action air chamber defining multiple vectors of force to be applied to a spine, particularly to the lumbar spinal region. The apparatus gradually lifts and separates the vertebrae in a manner that greatly surpasses the conventional traction devices and passive spinal correction devices."

Dr. Richard Graham, Posture Pump® inventor and holder of 3-patents with others pending, commented on the new development: "It's said that 'necessity is the mother of invention.' Regarding the vectored pneumatic joint separator (VPJS), that certainly was the case. After 20-years of x-raying spines it became evident that loss of the lordotic arc in the lower spine was not nearly as prevalent as the common existence of liquid locks. LIQUID LOCKING is a condition that exists when the spine is laterally flexed and one or more discs cannot shift in the direction of the convexity. This mechanical malady greatly limits spinal range of motion, starves surrounding joints of vital fluid transfer and of course leads to dehydration of discs."

"From adjusting patients with liquid locks and post x-raying them we knew that our best chance to correct the mechanical component was to introduce dual simultaneous multidirectional force into the lock with the spine in a lordotic configuration."

“At the time of the (VPJS) discovery we already had the computerized full-spine Posture Pump in operation and had tested it on over 1000 doctors. These prototypes utilized single air cell technology in the cervical and lumbar regions and I had hoped that our engineers could adapt the new invention to the existing unit. Unfortunately we had to go through a major redesign on the physical unit, air cells and software. The result was well worth the extra year of development. All full spine Posture Pump® machines (including manual models) are now equipped with dual vectored pneumatic joint separators (VPJS)!”

The computerized full-spine Posture Pump® features an Intel® processor with patented three-stage fill of the dual vectored thoraco-lumbar air cells and double fill of the cervical cell. Patient controlled, just choose from low, medium or high settings and ride The Most Advanced Spinal Shaping, Joint Lubricating Machine Ever Developed! A must for all spinal specialists.