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# Computer helps design shoe that walks on air

The first Air Shoes Invention

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## Computer Helps Design Shoe That Walks on Air

In a collaboration between a computer and a former Olympic athlete, a shoe that allows one to "walk on air" has been designed. Dr. Gideon Ariel and his company, Computerized Biomechanical Analysis (CBA), have created a shoe that uses air to cushion each step, reducing strain on the foot, leg, and lower back. The design was born from a study commissioned by the U.S. Bureau of Standards to investigate the efficiency of common shoe designs. The study found that the most efficient way to walk is barefoot, with a rolling motion that pushes the body forward. The air shoe mimics this motion, providing a cushioned step and a rolling effect when walking or running. The design has been acquired by the Pony Shoe Company and is expected to be used in various sports and potentially by the general public. CBA has also designed a new exercise machine and a tennis racket with a pivoting handle, among other products.

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Below find a reprint of the 1 relevant pages of the article "Computer helps design shoe that walks on air" in "Daily Hampshire Gazette":

### Computer helps design shoe that walks on air

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