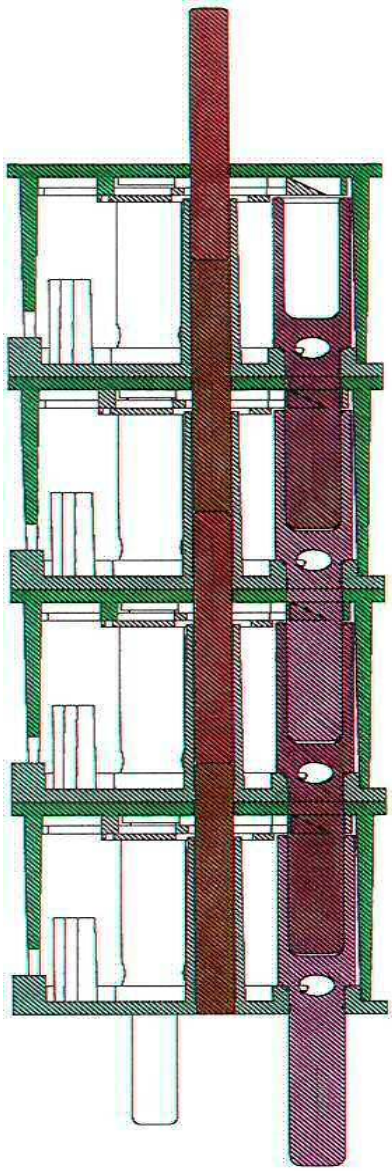
ELECTRICAL MULTIPLUG POWERBOARD : PIGGY-BACK ELECTRICAL PLUGS

Multiplug powerboards are widely used around the world. They are space consuming and may be overloaded although magnetic circuit trip switches may be incorporated.

Steven Wolfowitz, a chemical engineer, invented a multiplug having a socket on its top connected to its pins so a number could be 'piggy-backed' onto each other. An inventive novel aspect was the inclusion of a protruding rod from the top which extended with each additional plug added to limit the number which could be coupled. When the topmost rod extended too far for the next's pins to reach the socket holes no more could be added. The apertures also automatically close at this position.



CLOSURE FOR A CONTAINER

In vertically integrating his packaging business Steven Wolfowitz, a chemical engineer, developed a plastic container and closure manufacturing facility producing about 2 million containers a month in 1984. Some bottles had handles and he noticed that the currently available flip open push-on caps were randomly applied to bottles. Sometimes when the caps were opened the top section which was hinged to the locating bottom section would obstruct the liquid being poured out which would be poured onto the open hinged top part.

He realized that most closures were usually completely removed without any retaining ring or lower section. But pilfer-proof caps were becoming important so he embarked upon designing and patenting a new pilfer-proof cap where the top section could be completely removed and relocated securely after use. This patented closure became the most widely used closure worldwide and became the de facto standard for all water, milk, medicine, fruit juices and carbonated PET drinks containers.

The novel and inventive claim involved the closure he made of two initially joined parts - the cover section and a retaining locating ring below separated by a thin perforated membrane which could be broken completely when upward pressure was applied to the to cover section. This upward pressure could be applied by either pushing up a small protruding lip connected to the top cover while the lower ring remained connected to a locating complementary ring on the bottle neck.

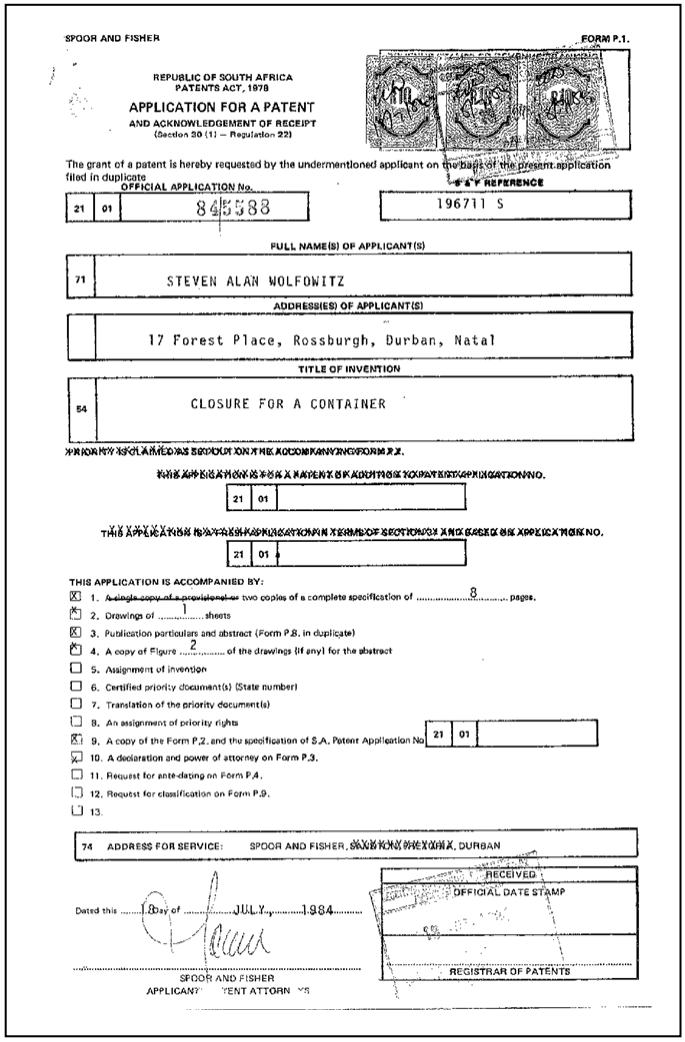
Obviously the patented upward pressure would also be exerted on a screw cap version when unscrewing the top cover section from the threads moulded above the retaining ring of the bottle neck.

To ensure there were no leaks the sealing of the bottle was achieved by an inner plug moulded into the top cover part of the closure. In the 'push-up' version a second locating peripheral protuberance at the lower end of the top part clipped onto a second higher retaining ring on the bottle neck to hold it closed after opening and use.

Unfortunately, due to circumstances beyond Steven's control, and without his knowledge, His patent maintenance renewals were not processed and Steven lost the patent and his rights.

Use of these closures is in the billions today.

His actual filed specification is displayed:



SPOOR AND FISHER — FORM P.1.

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978

APPLICATION FOR A PATENT
AND ACKNOWLEDGEMENT OF RECEIPT
(Section 30 (1) — Regulation 22)

The grant of a patent is hereby requested by the undermentioned applicant on the basis of the present application filed in duplicate

OFFICIAL APPLICATION No. 21 01 845588

S & F REFERENCE 196711 S

FULL NAME(S) OF APPLICANT(S) (71) STEVEN ALAN WOLFOWITZ

ADDRESS(ES) OF APPLICANT(S) 17 Forest Place, Rossburgh, Durban, Natal

TITLE OF INVENTION (54) CLOSURE FOR A CONTAINER

PRIORITY IS CLAIMED AS SET OUT ON THE ACCOMPANYING FORM P.2.

THIS APPLICATION IS A PATENT OF ADDITION TO PATENT APPLICATION NO. 21 01

THIS APPLICATION IS A PATENT APPLICATION IN TERMS OF SECTION 37 AND CODED AS APPLICATION NO. 21 01

THIS APPLICATION IS ACCOMPANIED BY:

1. ~~A single copy of a provisional or~~ two copies of a complete specification of 8 pages.
2. Drawings of 1 sheets
3. Publication particulars and abstract (Form P.8. in duplicate)
4. A copy of Figure 2 of the drawings (if any) for the abstract
5. Assignment of invention
6. Certified priority document(s) (State number)
7. Translation of the priority document(s)
8. An assignment of priority rights
9. A copy of the Form P.2. and the specification of S.A. Patent Application No. 21 01
10. A declaration and power of attorney on Form P.3.
11. Request for ante-dating on Form P.4.
12. Request for classification on Form P.9.
13.

(74) ADDRESS FOR SERVICE: SPOOR AND FISHER, DURBAN

Dated this 18 Day of JULY 1984

SPOOR AND FISHER
APPLICANT'S PATENT ATTORNEYS

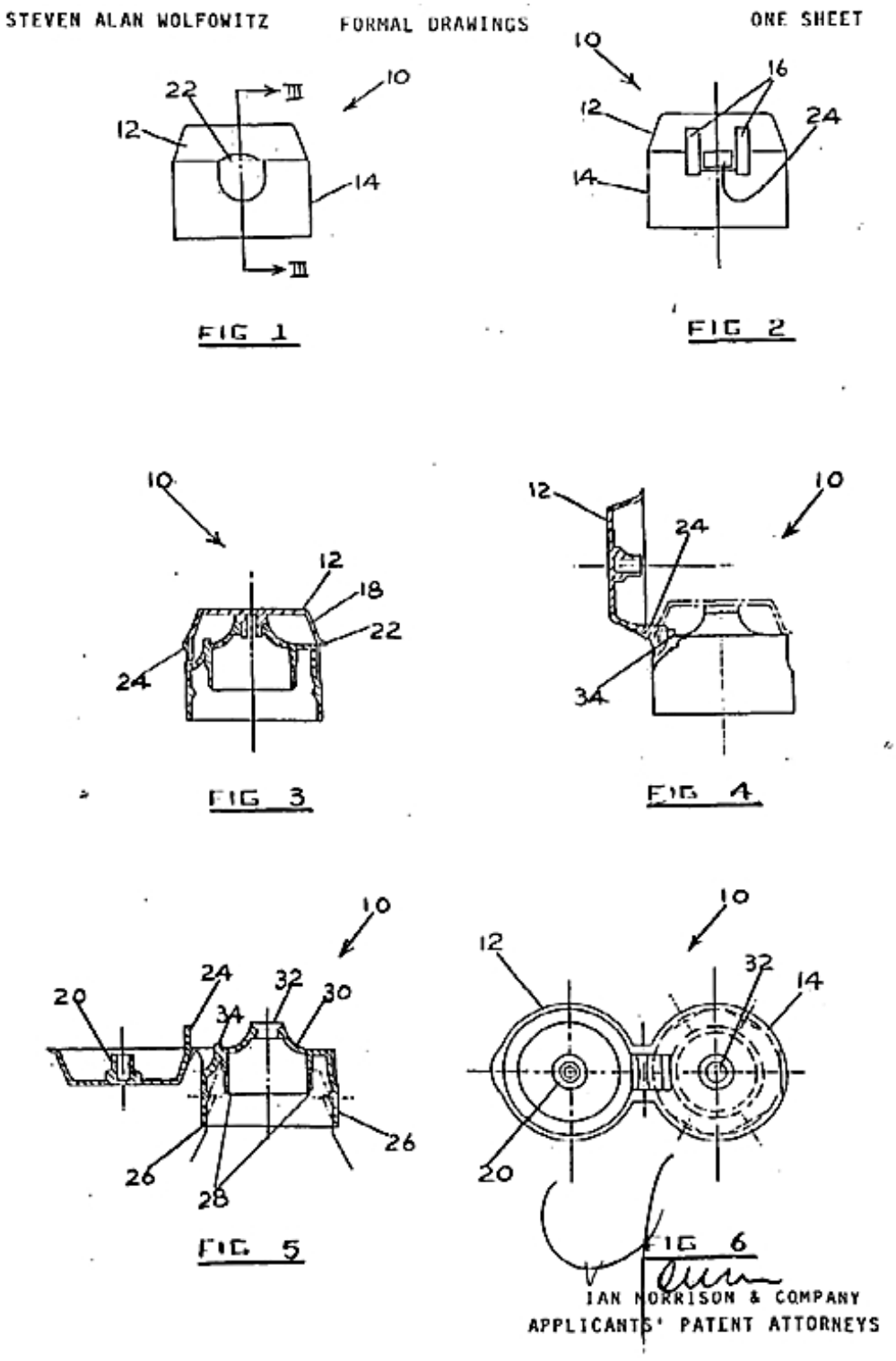
RECEIVED
OFFICIAL DATE STAMP
REGISTRAR OF PATENTS

info@wolfowitz.com
www.wolfowitz.com

HINGED CLOSURE FOR A CONTAINER

Steven Wolfowitz, a chemical engineer, invented a Snap-hinged closure for containers. The invention concerns a closure for a container such as a plastic bottle in which a hinged cap has a lug adjacent its hinge or between its pair of hinges, and a protrusion on the container whose upper surface is within the radius of movement of the lug so that the latter can only pass the protrusion due to resilience of one or both and when the cap is returned to its closed position, the lug engages the protrusion to maintain the cap open until force is used to cause this lug to move past the protrusion.

This type of closure is widely used for sauce bottles, etc.

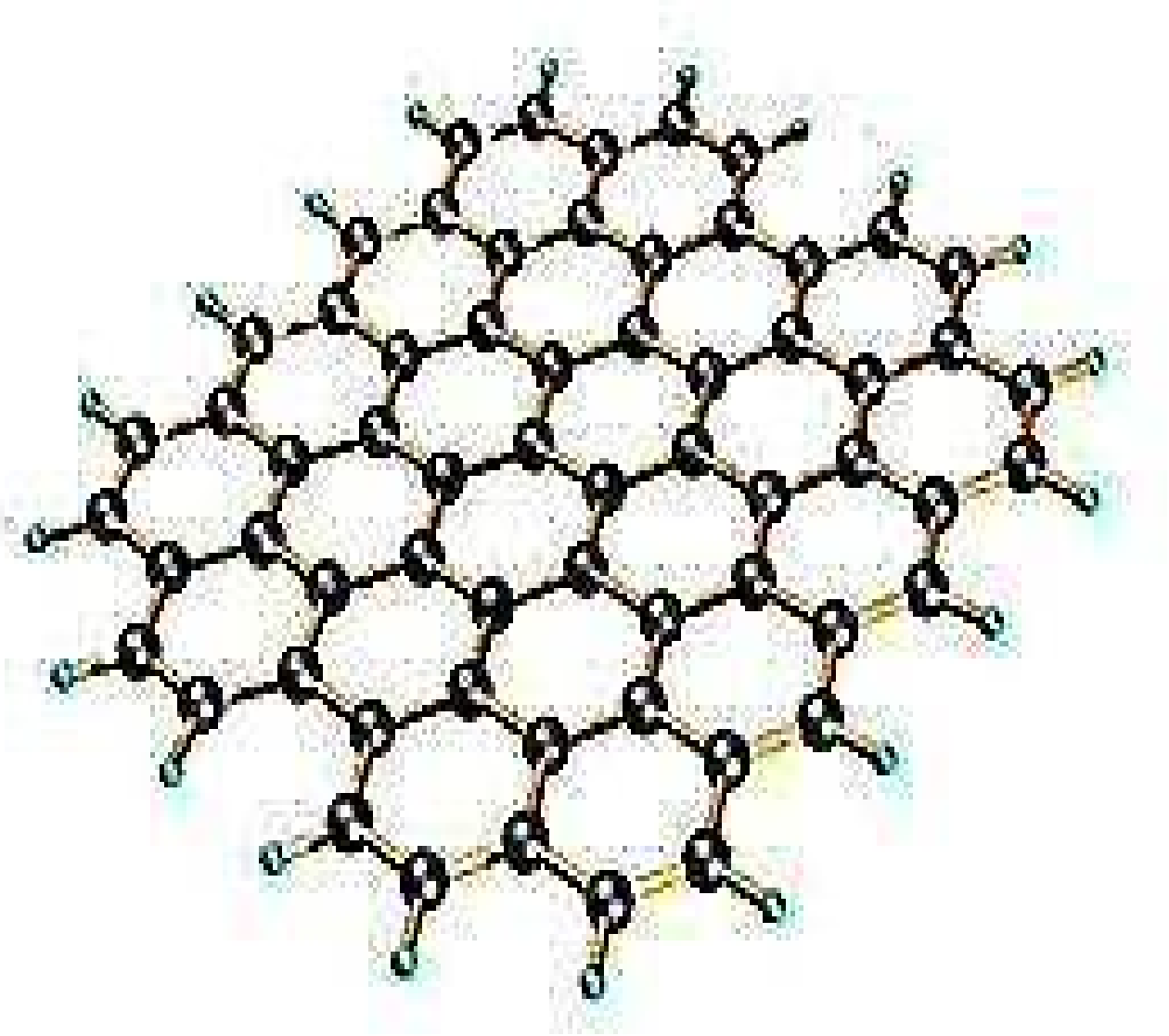


info@wolfowitz.com www.wolfowitz.com

GRAPHENE WATERPROOF IDENTIFICATION TRACKING DEVICE

Steven Wolfowitz, a Chemical engineer, invented and patented a waterproofing identification system for objects consisting of a graphene covered and protected identifying device with imbedded or integral circuitry capable of transmitting electronic signals. This is intended for multiple uses, e.g. in tracking laundry while providing a history of procedures undergone, etc. It is further designed to track livestock which is frequently stolen or “rustled” and has many other applications.

Graphene consists of a single layer of carbon atoms structured as below. Multiple layers may be used.



info@wolfowitz.com www.wolfowitz.com