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PHILADELPHIA, PA.—Oil has great penetration. Early history tells us, it seeped from the dark recesses of the earth and formed "burning pools" on the surface.

Today, as oil serves man in its many modern uses Belmont Packings minimize the penetrating power of this elusive liquid. Designed and constructed to guard against seepage, Belmont Packings give maximum performance in all types of oil service.

Belmont No. 189 for use on rods and plungers handling hot oil and distillates. Made of long fibre asbestos yarn, firmly braided and lubricated with a special compound for extra resistance to penetration and saturation. This packing is noted for its efficient operation even at temperatures where the packing is literally "boiled in oil."

Belmont "9100" for use on rods and valve stems handling gasoline and other petroleum distillates. Made of high-grade asbestos yarn, braided jacket over jacket and treated with a special lubricant which preserves its softness and sealing qualities.

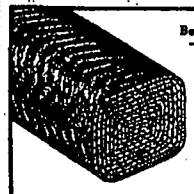
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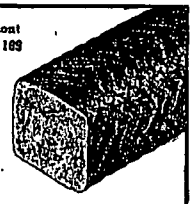
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BELMONT
PACKINGS



Belmont "9100"

For piston rods and valve stems running in oil, gasoline, benzol, naphtha, kerosene and similar solvents.



Belmont Style 189

Hot Oil Asbestos Packing for rods and plungers. Construction minimizes capillary attraction and saturation.

THERE'S A BELMONT PACKING FOR EVERY SERVICE

Steam, Water, Oil, Gas, Air, Acids, Alkalies, Ammonia. Forms include: Rings, Spirals, Coils, Reels, Spools, Sheets, Gaskets.



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Fig. 14. This action gives the paper nearest the rod a negative charge and it is attracted by the rod.

Rubbing a stick of sealing wax with cat's fur causes electrons from the fur to migrate to the wax. It becomes negatively charged whereas the fur assumes a positive charge. If the end of the sealing wax is brought near bits of paper it will attract them. In this case the negative charge on the wax repels some of the electrons in the near edges of the paper. This part of the paper then has a positive charge, as in Fig. 15, and is attracted by the negative charge on the wax.

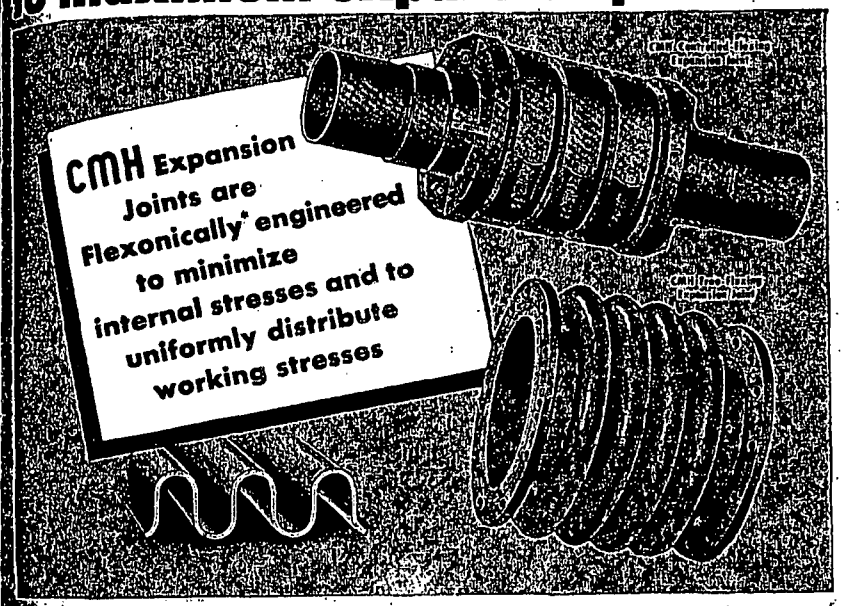
When you walk across the carpet in a dry room and reach out to touch a radiator your fingertips get a shock as they come near the radiator. This shows that your body becomes electrically charged by the action of your feet on the carpet. What really happens is that your shoes pick up electrons from the carpet and your body becomes negatively charged. When you touch the radiator your excess electrons flow into it and to the earth to establish again a balance between electrons and protons in your body and "put you at peace with the world." This process seems to be going on in all substances, electrons moving from a substance that has an excess to one that has a deficiency.

As already mentioned, like electrical charges repel and unlike charges attract. A simple experiment proves this theory. Support each of two pith balls from the end of a silk thread and touch each with a glass rod after rubbing it with silk. This gives each ball a positive charge because the positively charged rod robs the pith balls of some of their electrons to help make up the deficiency on the glass rod. If the pith balls are now brought together they repel each other. Similar results are obtained if the pith balls are touched with a sealing-wax stick, after being rubbed with cat's fur. In this case the pith balls are negatively charged and repel each other, because some of the excess electrons on the sealing wax hopped onto the balls and left them with an excess.

If one of the pith balls is touched with the glass rod and the other with the stick of sealing wax the balls have opposite charges and attract each other. These simple experiments show how electrons try to get away from a spot where there is an excess to one where there is a deficiency.

References. The simple concepts of electrons and the structure of matter, given in this and the April issue, are

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