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Toxic Dusts

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PLAINTIFF'S
EXHIBIT

NSC-9

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A new pocket-size indicator has recently been developed. In size and weight it compares with a small folding camera. The principle of operation is similar to that of the combustible gas indicator. By operating a small piston-type pump, a sample of the atmosphere to be tested is drawn through a length of hose into the detector. The concentration of gas may be read directly on the meter, which is graduated in per cent of the lower explosive limit. This device fills the need of operating men in that it can be carried about on the job and operated by any workman.

The *Combustible Gas Alarm* is another detecting device which operates on the same general principle as the combustible gas indicator, except that it is designed for permanent installation and continuous service. It gives a warning or operates controls whenever gas concentration reaches any pre-selected point between 10 per cent and 100 per cent of the lower explosive limit. Several makes are now on the market.

Lungs Can't Overcome Toxic Dusts

INCREDIBLE as it sounds, the entire surface of a normal lung is equivalent in area to a strip of land occupied by a house 31 ft. square, according to W. H. Lehmberg, American Optical Company research scientist, and in 24 hours of normal respiration approximately 600,000 cubic inches of air are breathed, the equivalent of air contained in a room 7x7x7 feet.

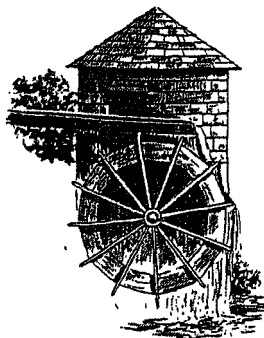
Unfortunately, the scientist declared, the lung, although an amazingly efficient organ, was not designed by Nature to overcome the injurious effects of silica dust and other toxic materials breathed in. Neither was it designed to eliminate entirely such materials.

Studies have revealed, he stated, that particles of silica dust in the neighborhood of 10 microns or smaller (a micron is 1/25,000 of an in.) are definitely harmful to the lungs, and their absorption over a period of time may result in silicosis.

A determined soul will do more with a rusty monkey wrench than a loafer will accomplish with all the tools in a machine shop.

—Rupert Hughes.

National Safety News, January, 1940



"The Mill Cannot Grind with Water That's Passed"

Unlike "water over the dam"—skilled manpower represents a costly investment. Costly to replace when head and eye injuries occur. Yet, it is remarkable to note how workmen can become habitually inspired to wear a comfortable, cool, well-fitting goggle, thereby reducing eye hazards to a minimum for a very reasonable outlay.

Cesco "Trojan" Comfortable Type Goggle Cooler to Wear--Does Not Fog--

Give your men this Cesco No. 527 TROJAN GOGGLE—a goggle that fits because each eye cup is individually moulded to meet varying facial requirements. Moreover, special air channels beneath the lenses increase cool air circulation, prevent eye-sweating, and reduce fog tendencies to a minimum.

4 MODELS: For Chippers—Welders—Anti-Dust Type—Transparent Model. Write

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NEW COMFORT CUSHION PAD—

Use to insulate eye cup of Cesco Trojan on "hot" jobs—metal pouring, preheating, etc. Try it!



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Gets ALL Dirt and Debris

in the Powerful

HOFFMAN HEAVY DUTY CLEANING EQUIPMENT

These bolts, nuts and other pieces were removed from a Hoffman system installed in a coal preparation plant. Lying hidden in piles of dust they were picked up by the nozzle, swept along the hose and deposited in traps placed in the piping for that purpose. Hoffman systems get the dirt; they pick up anything small enough to enter the nozzles.

Portable Cleaners—and permanently piped systems—for every industrial housekeeping job.

SEND FOR NEW BOOKLET "THE MENACE OF DUST"

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