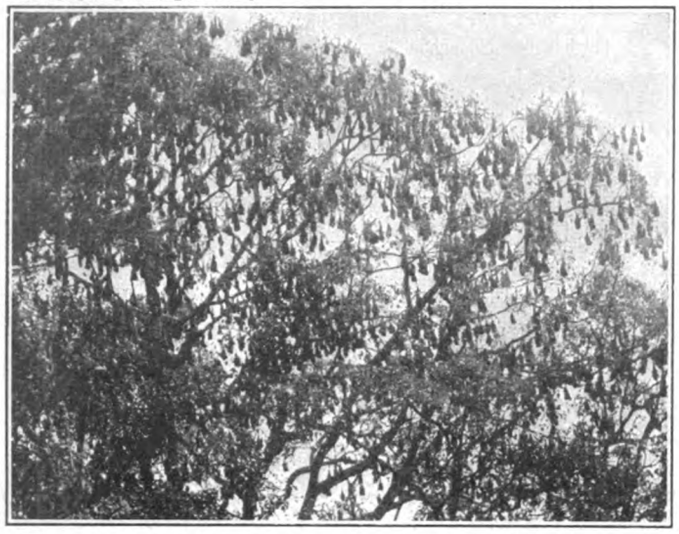
Photographs © Ewing Galloway



These huge bats hanging from every branch, and looking somewhat like the fruit itself, are the fruit-growers' pest in Ceylon

## Fruit-Eating Bats of Ceylon

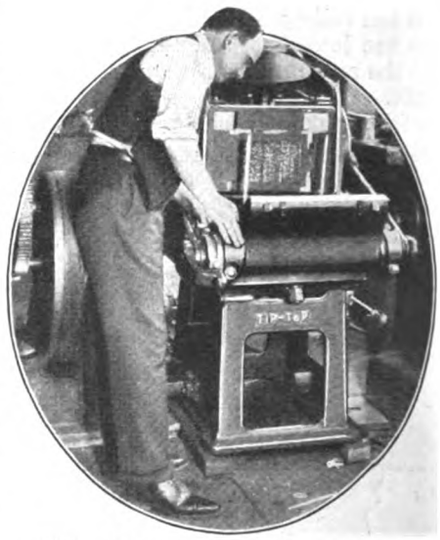
THE objects hanging from the limbs of this tree are neither fruit nor hornets' nests, but flying foxes, or fruit-eating bats. These bats measure more than two feet from wing tip to wing tip and are so numerous that if they were unchecked, they would make it impossible to raise fruit in the neighborhood where they abound.

These bats hang from the trees by their feet, with their heads down. Certain trees are selected as resting-places, and the whole colony hangs there during the day—which makes it easier for the bat-killers.

The official bat-killer of Kandy exhibits a specimen with a wing-spread of twenty-four inches

## Printing-Press Is a War Veteran

UNTIL now, Gutenberg's first press was the only one we remembered, but "Tip-Top Kelly" is a printing-press with a history and a service record. It first went into action in the German trenches, where it unsuccessfully preached the doctrine of "*Deutschland über alles.*" It was then shipped to Ireland as part of the equipment of the ill-fated expedition of Sir Roger Casement, and although Casement failed to incite revolution in Ireland, the press was landed and set up in a secret plant in Cullicurry, County Galway, Ireland, where it was operated by the Sinn Fein. It recently came to the United States and now works for a prosaic commercial printer, but its secret history has leaked out and, as a result, scores of those who favor the Wearing of the Green have made a pilgrimage to the inky shrine.



This press has been in a war, a revolution, and a wreck, yet it still operates effectively

It is not only a very interesting relic of the war, but the only press of its kind in the United States, and a tribute to German inventive genius. It operates noiselessly; and incorporates a die-cutter, an automatic sheet-adjuster, an embosser, creaser, perforator, and color-printer, with automatic guides, and it boasts a producing capacity of four thousand sheets an hour.

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To demonstrate what delicate fabrics a washing-machine would handle, a hardware merchant washed some dollar bills in the machine, putting them through the wringer afterward, and drying them with an electric fan.

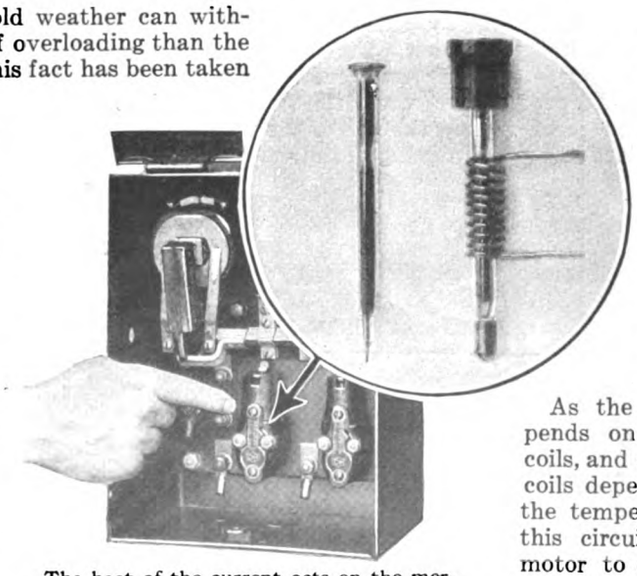
## Mercury Column Protects the Electric Motor

AN electric motor operating in cold weather can withstand a much greater amount of overloading than the same motor on hot summer days. This fact has been taken into consideration in the manufacture of a new protective device for electric motors.

The new overload relay consists of a glass tube containing a column of mercury. Coiled around the tube are several turns of heavy wire. The latter is part of the same wire that goes to the motor from the lines, while the mercury is part of the same circuit that goes to the relay magnet and the contactors.

When fuses are used for this purpose, the sudden rush of current when the motor is thrown on the line, blows them instantly, causing unnecessary delay and waste. With this new relay such trouble is done away with.

If the motor is overloaded, the excessive current flowing in the coils surrounding the mercury produces an unusual heat, causing the mercury to boil. As it boils and vaporizes, the circuit is broken and the magnet allows the contact fingers to drop away.



The heat of the current acts on the mercury column (see oval) and in this manner controls the motor load

Once the interruption has occurred, the mercury—now no longer heated—cools and reforms the column, thus making the circuit again, permitting the motor to be started, and repeating its warning when necessary.

As the action of the mercury depends on the heat given off by the coils, and as the heat given off by the coils depends among other things on the temperature of the air around it, this circuit-breaker will permit the motor to carry a larger load on cold days. At the same time it affords adequate protection in all weather.