## RECENTLY PATENTED INVENTIONS. Pertaining to Apparel.

SWEAT-BAND.-T. J. Asch, New York N. Y. The invention refers to hats and other head coverings, and its object is to provide a new and improved band for head coverings, notably straw hats, soft and stiff hats and the like, and arranged to bear softly on the head of the wearer and to readily conform to the configuration of the head.

## Heating and Lighting.

THERMOMETER AND OTHER SIMILAR DEVICE HAVING SATURATED VAPORS .-J. B. FOURNIER, 62 Quai des Orfévres, Paris, France. The invention relates to improvements in devices in which the part sensible to heat has for its purpose to act as a manometer or other member sensible to the pressure, located heat. It is closely associated with other inven- phase. Full explanation of the features of applications. The purpose of the said improved and apparatus, is to be had in Sloane's "Hand ments is to locate on a predetermined length Book of Electricity," which we send for \$3.50 heat.

### Of General Interest.

LIGHTNING-ROD TERMINAL.-J. P. TUR-NER, New York, N. Y. The object here is to the horizon are apparently so much larger than provide for the speedy dissipation of the current, whereby danger of the rod being over-charged and melted is avoided. This is accomplished by passing the rod through a substantially horizontally disposed tapering perforated body filled with charcoal and having branch conductors leading from its enlarged end. The perforations permit the water to seep through, maintaining the terminal in a high state of conductivity.

SCALE.—J. W. FREE, Swissvale, Pa. In this case the invention pertains to scales used for determining sizes of tools, wire, sheet material, and the like, the more particular object being to provide a construction having intelligible characters placed thereon and admitting of a large variety of general uses.

AIR-CUSHION FOR HORSESHOES.-J. H. FAWKES, Detroit, Mich. This invention comorises a substantial ring shaped shoe of suitable material, secured to the hoof of the horse by the usual nails. A clamping ring fits within the shoe, the ring being secured to the shoe by screws. A resilient bag is arranged within the clamping ring, and a cover of leather or fabric material is placed over the bag, the edges of the cover being inserted between the ring and the shoe.

# Machines and Mechanical Devices.

COMBINATION-LOCK FOR DOORS.—D. E. LOMBARD, New York, N. Y. The invention pertains to certain improvements in combination locks for doors, and more particularly to that type of lock in which the door may be opened from either side by independent operating members, one of which includes a mechanism which must be operated in a particular manner in order to withdraw the lock bolt.

WOODWORKING-MACHINE.-C. L. HART-WELL, Chicago Heights, Ill. The invention contemplates a machine for turning irregular or non-circular forms, the machine being more especially designed for shaping the eye portion of ax and other handles, although it is not limited to this particular operation, as it may be used with advantage in the shaping of other

CARVING-MACHINE .- W. F. MANGELS, New York, N. Y. This machine accurately and quickly reproduces in wood or other materials a plurality of parts simultaneously, according 75 per cent; polished copper about 85 per cant; polished gold and silver about 97 per cent; polished copper about 85 per cent; polished copper about 97 per cent; polished copper about 98 per cent; polishe and the motors running, the operator takes cent. The solar motor in California is run by hold of the holder and moves the pointed head steam produced by boiling water with the hea of the tracer toward the pattern, so that the revolving carving tools come in contact with and cut the blocks, the tools used being roughening tools, to give an outline shape to the block according to the pattern.

GRIFFIN, Roslyn, Wash. In the present patent the invention has reference to machinery for use in polishing shafting; and the object of the improvement is the production of the same of moving around the north star in twenty four hours? A. The rotation of the earth upon the same of the sky to appear to move around the north and court and pear to move around the north and court and court and court around the north are also gives the Dipper the appear. improvement is the production of a machine of pear to move around the north and south poles this class which is simple in construction, and provided with automatic means feeding the shaft to the rolls.

MECHANICAL MOVEMENT .- W. SULLIVAN, Hot Springs, Ark. The object of this inventor is to provide a new and improved mechanical movement for converting reciprocating motion into a rotary motion in a very simple and effective manner. The movement is durable in construction, composed of comparatively few parts, and not liable easily to get out of order

EARTH SCRAPER-J. E. TUCKER, Jennings, Kan. The invention relates to that class of scrapers and excavators which are employed for handling or transferring masses of earth. sand and other material from one point to an other along the surface of the earth by being dragged back and forth between two points from the action of cables winding on spools which are turned by separate frictions and so constructed that either may receive power separately while the others are released.

Note.-Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.



HINTS TO CORRESPONDENTS

Full hints to correspondents were printed a the head of this column in the issue of Augus 8th, or will be sent by mail on request.

(10840) W. M. asks: Please inform me the meaning of the term three-phase o single-phase, speaking in this case about alter nating electric currents. Kindly explain th difference in the two. A. When a dynamo pro incloses a saturated vapor the tension of which duces three e. m. f.'s 120 deg. apart, three cur rents result with suitable wiring. Such a cur rent is three-phase. If but a single e. m. f. i at any distance from the said part sensible to produced, the resulting current is a singl tions described in Mr. Fournier's formerly filed alternating currents, and all electrical current the part of the apparatus which is sensible to and which is indispensable to workers with electricity.

> (10841) G. H. H. says: Will you kind ly tell in your Notes and Queries column why the sun and the moon when they appear nea apparent size of the sun and the moon when seen near the horizon is due to the fact tha we contrast them in this position with terres trial objects, and their greater distance im presses the mind with their great size. With measuring instrument the optical illusion var ishes. The moon measures slightly larger whe high in the sky than when on the horizon, since she is then about one-sixtieth nearer the ey than when on the horizon. For this see Todd' "New Astronomy," which we send for \$2 b

> (10842) A. S. asks: If a cubic hole were dug in the center of our earth about 8 x 8 x 8 feet, and a man could be in the hole how would he know whether his head were up or down, or he were lying down or standin upright? A. If a man were in a hole at th center of the earth he would not know which direction was up or down; there would be no such thing as direction. This would be the case, without reference to the size of the hole even if it were thousands of miles across. the earth were hollow, a body anywhere in th hollow would be equally attracted in all direc tions and would lose the sensation of weigh or gravitation. All directions would be th

> (10843) A. J. Z. says: 1. Is there any method known, theoretical or practical, by which intense heat may be transmitted a dis tance of say twenty feet by other means that that of heating an agent and transferring the heated agent to the desired spot? A There is probably no way in which an intens heat may be transmitted twenty feet from the source of heat. The heat of the sun may be reflected, but any terrestrial heat is too feeble for such transmission. 2. When a sunbeam is reflected by a mirror, how much, if any of the heat is reflected with the light? The heat of the sun's rays is always reflected with the light. What part of the whole amoun is reflected depends upon the material of th reflector. In this matter quite different re sults have been reached by different investi gators, so that any figures must be taken with allowance, as being to a degree uncertain. Al agree that lampblack reflects no heat. Wate too may be taken to reflect none. Glass reflects about 10 per cent; polished iron abou of the sun which has been reflected by glas plates upon the boiler.

> (10844) S. G. B. says: right in stating that the revolution of the earth on its axis gives the Dipper the appear of the sky each day. The Dipper has this mo tion with all the other stars. The rotation o the earth is from west towards the east, and the stars appear to move from east to west rising in the east and setting in the west Those stars near the north pole with us do no set nor rise, but move toward the east in the lower part of their motion and towards the west in the upper part.

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