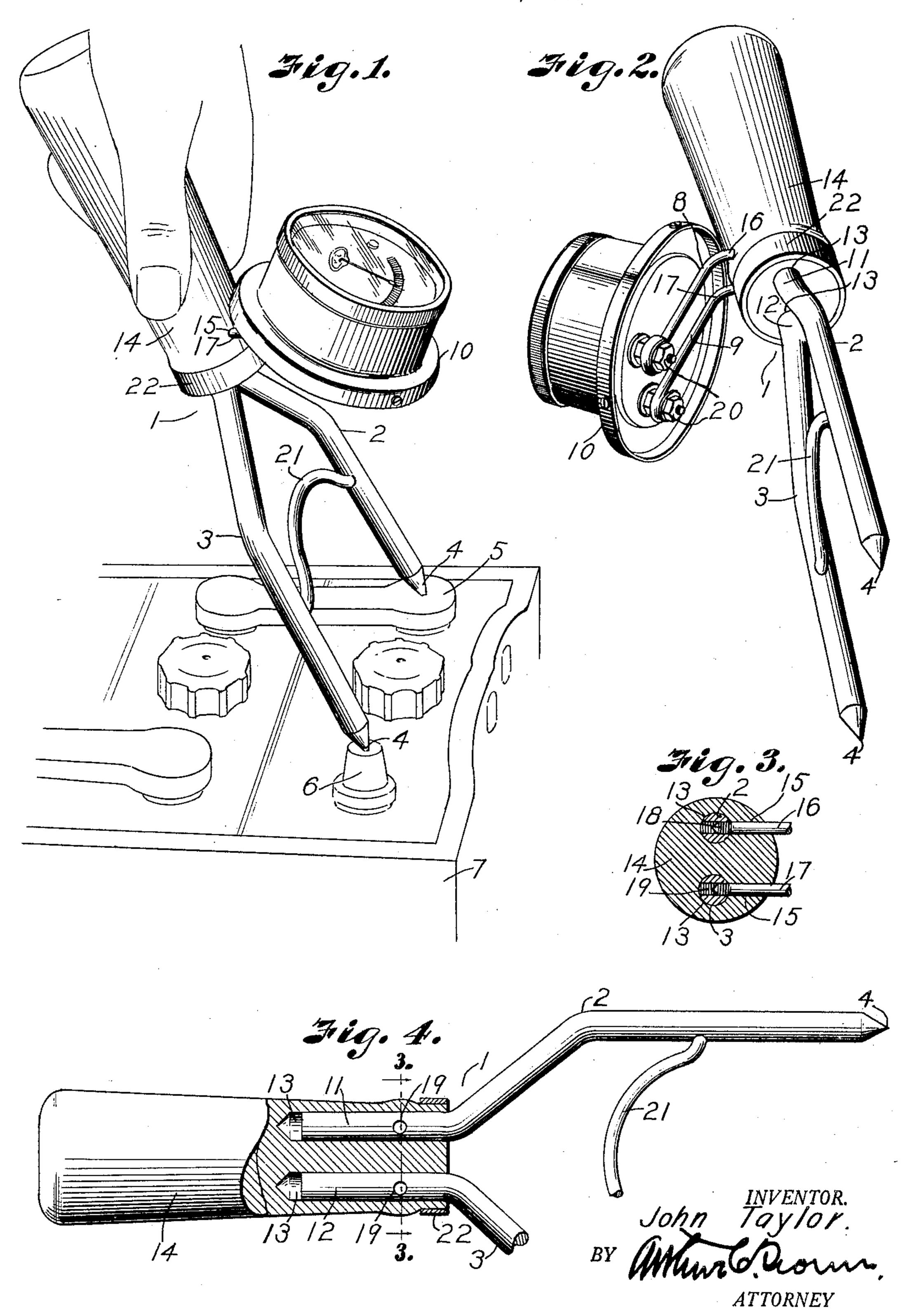
BATTERY TESTER

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UNITED STATES PATENT OFFICE

JOHN TAYLOR, OF KANSAS CITY, MISSOURI

BATTERY TESTER

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meter and contact prongs, to securely retain cated by 18, and screw-threaded radial open- 55 on the contact prongs by the means connect- of the contact prongs to receive the tips ing the prongs with the voltmeter whereby of the connectors whereby the connectors in which hazard of accidental separation nectors comprise leads from the voltmeter, 60 of the connectors from the contact prongs and are removably attached thereto by will be avoided.

In accomplishing these and other objects The contact prongs are stabilized in spaced of the invention I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawing, wherein:

Fig. 1 is a perspective view of a battery strengthen the structure. tester embodying my invention, and its ap-

plication to a storage battery.

Fig. 2 is a perspective view of the tester illustrating the manner of attaching the voltmeter to the contact prongs.

Fig. 3 is a cross section on the line 3—3,

25 Fig. 4.

section, illustrating the mounting of the contact prongs in the handle.

cluding spaced contact prongs 2 and 3 pro-threaded connector tip with the threads of vided with contact points 4 for coincidental the opening. The connectors are then atcontact with the anode 5 and cathode 6 of tached to the voltmeter. through the prongs, connectors 8 and 9, and ly latched in the handle by the connectors. 85 a voltmeter 10, for ascertaining the voltage and the connectors are fixed in the prongs of the battery.

each other and then into parallelism, and by the handle, and the engaged ends of the 90 handle 14, for support of the prongs by the to prevent breakage at the joints. handle. The prongs are fixed in engagement What I claim and desire to secure by with the handle by means connecting the Letters Patent is: 45 prongs with the voltmeter, as will now be 1. In a battery tester including a meter 95 described.

⁵⁰ connectors 8 and 9 are bent suitably for ductive connectors having portions mounted ¹⁰⁰

My invention relates to battery testers and insertion into said openings 15 for properly has for its principal objects to attach a positioning the voltmeter in relation to the voltmeter securely to contact prongs, to handle and contact prongs. The tips of the strengthen the connection between the volt- ends 16 and 17 are screw-threaded as india handle on the prongs, and to fix the handle ings 19 are provided in the ends 11 and 12 a stable and sturdy device will be produced latch the prongs to the handle. The conscrews 20.

> relation by a brace bar 21 which also serves as a resistance member and a shunt element 65 for well known purposes. A ring 22 mounted on the end of the handle serves to

In assembling the device, the voltmeter, connectors, contact prongs and handle are 70 assumed to be separated. The handle ends of the contact prongs are inserted in the longitudinal sockets of the handle, the threaded openings 19 of the prongs registering with the side openings 15 of the 75 Fig. 4 is an elevational view, partly in handle. Each of the connectors is then separately applied to the prongs and handle, the outer end of a connector being inserted Referring in detail to the drawing: into an opening 15 of the handle and into 1 designates generally a battery tester in- the related prong opening, to engage the 80

a battery 7 whereby current may flow. The contact prongs are, therefore, secureagainst accidental disturbance of current-The base ends 11 and 12 of the prongs op- conducting function. The joints between posite the contact points are bent toward the connectors and the prongs are shielded inserted in longitudinal sockets 13 of a connectors are re-enforced by the handle

and prongs having parallel spaced ends, a Side openings 15 are provided in the han- handle having longitudinal sockets to redle, which extend to the longitudinal sock-ceive the prong ends and lateral openings ets 13, and the outer ends 16 and 17 of the communicating with the sockets, and conin said openings and engaging the prong ends for securing the same in said handle and opposite portions extending outwardly and downwardly from the handle and conductively connected at their outer ends with the meter.

2. In a battery tester including a meter, a pair of prongs having base ends provided with screwthreaded radial openings, a 10 handle adapted to receive the base ends of the prongs and having side openings, and conductive connectors having screwthreaded tips on one end adapted to enter said openings of the prongs for securing said prongs in said handle, the remainder of said connectors extending outwardly and downwardly from said handle, and means for securing the opposite ends of the connectors conductively to the meter for supporting the meter in spaced, inclined relation with the handle.

3. In a device of the character described, a handle having a pair of elongated longitudinal sockets opening to one end face of 25 said handle, and provided with apertures communicating with said sockets, a pair of prongs having portions insertable in said sockets provided with screwthreaded openings, and a pair of connectors having screw-30 threaded inner ends insertable in said apertures for mounting the same in said screwthreaded openings for securing said prongs in said handle, the outer ends adapted for attachment to a meter or the like for sup-35 porting the meter from the handle and also serving as electric conductors to said meter. In testimony whereof I affix my signature.

JOHN TAYLOR.

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