This invention relates to a radio tube extractor.

A primary object of this invention is the provision of a device whereby radio tubes or the like may be removed from their sockets without the necessity of touching the same with the fingers.

An additional object is the provision of a device whereby a radio tube may be removed from a socket located in such position as to be difficult of access by the fingers or hand.

A still further object is the provision of a device whereby a hot radio tube may be removed without touching the same thus obviating the possibility of burning the fingers.

Additional objects reside in the combinations of elements, arrangements of parts, and features of construction, all as will be more fully pointed out hereinafter and disclosed in the accompanying drawings, wherein there is shown a preferred embodiment of this inventive concept.

In the drawings—

Figure 1 is a perspective view of one element comprising a part of the instant invention.

Figure 2 is a perspective view of another element of the device.

Figure 3 is a side elevational view of the element of Figure 2.

Figure 4 is a top plan view of the elements of Figure 1.

Figure 5 is a bottom plan view of the elements shown in Figures 2 and 3, and

Figures 6, 7, and 8 are side sectional views of the assembled device in three different positions of adjustment.

Like reference numerals refer to like parts throughout the several views of the drawings.

Having reference now to the drawings, Figure 1 discloses a sleeve 10 of sheet metal or the like, provided with a looped handle 11. A member generally indicated at 12 (see Figures 2, 3 and 5) comprises of a pair of tapered portions 13 and a resilient handle 14 securing portions 13 together at their upper extremities, is adapted to be positioned within sleeve 10. Portions 13 take the form of conic sections, curved to conform to the radius of curvature of sleeve 10 and are provided at their lower extremities with inwardly turned portions 15 forming flanges. When the device is assembled a suitable link 16 (see Figures 6, 7 and 8) is inserted in handles 11 to secure the same in alignment and to limit the movement of member 12 with respect to sleeve 10.

The operation of the device should now be readily understandable. When it is desired to remove a radio tube, member 12 is slid to its lowermost position with respect to sleeve 10 whereby a substantial amount of portions 13 extend outwardly below the sleeve, and the resiliency of handle 14 tends to bias such portions outwardly with respect thereto so that the same may be readily slipped downwardly over a radio tube 15. Sleeve 10 is then moved downwardly by means of handle 11 to assume the position shown in Figure 7 wherein the lower edge of sleeve 10 forces members 13 inwardly until flanges 15 are positioned under the edge of the base 16 of radio tube 15. Drawing handle 14 upwardly toward handle 11, to the position shown in Figure 8, now lifts the tube 17 from its associated socket and the same may be removed from the radio and released from the device by returning the parts to the position shown in Figure 6.

From the foregoing it will now be seen that there is herein provided a radio tube extractor which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture, and which accomplishes all the objects of this invention and others including many advantages of great practical utility.

As many embodiments may be made of this inventive concept and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

In a device of the character described, in combination, a sleeve, a handle on said sleeve, a pair of tapered members positioned for movement within said sleeve, a resilient handle member connecting said tapered members at their upper extremities and biasing their lower extremities outwardly with respect to said sleeve, a flange at the lower extremity of each of said members adapted to engage the base of a radio tube, and means securing said handles together to hold the same in alignment and to limit the movement of said sleeve and said tapered portion with respect to each other.

JOSEPH W. WHITNEY.