

HOUSE No. 00878

The Commonwealth of Massachusetts

PRESENTED BY:

Frank I. Smizik

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled:

The undersigned legislators and/or citizens respectfully petition for the passage of the accompanying bill:

An Act relative to expanding energy efficiency in the Commonwealth..

PETITION OF:

NAME:	DISTRICT/ADDRESS:
<i>James B. Eldridge</i>	<i>Middlesex and Worcester</i>
<i>Frank I. Smizik</i>	<i>15th Norfolk</i>
<i>Peter V. Kocot</i>	<i>1st Hampshire</i>
<i>Joyce A. Spiliotis</i>	<i>12th Essex</i>
<i>William N. Brownsberger</i>	<i>24th Middlesex</i>

HOUSE No. 00878

By Mr. Smizik of Brookline, petition (accompanied by Bill, House, No. 00878) of Frank I. Smizik and others relative to expanding energy efficiency for certain electrical products. Joint Committee on Telecommunications, Utilities and Energy.

[SIMILAR MATTER FILED IN PREVIOUS SESSION
SEE
□ HOUSE
□ , NO. 3124 OF 2009-2010.]

The Commonwealth of Massachusetts

In the Year Two Thousand Eleven

An Act relative to expanding energy efficiency in the Commonwealth..

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

1 SECTION 1. Section 2 of chapter 25B of the General Laws, as appearing in the 2008 Official
2 Edition, is hereby amended by inserting before the definition of “Ballast” the following
3 definition:-

4 “Art work light fixture”, a light fixture designed only to be mounted directly to an art work and
5 for the purpose of illuminating that art work.

6 SECTION 2. Said section 2 of chapter 25B, as so appearing, is hereby further amended by
7 inserting after the definition of “Boiler” the following definition:-

8 “Bottle-type water dispenser”, a water dispenser that uses a bottle or reservoir as the source of
9 potable water.

10 SECTION 3. Said section 2 of chapter 25B, as so appearing, is hereby further amended by
11 inserting after the definition of “Central furnace” the following 2 definitions:-

12 “Commercial hot food holding cabinet”, a heated, fully-enclosed compartment with one or more
13 solid or glass doors that are designed to maintain the temperature of hot food that has been
14 cooked in a separate appliance. This term does not include heated glass merchandizing cabinets,
15 drawer warmers, or cook-and-hold appliances.

16 SECTION 4. Said section 2 of said chapter 25B, as so appearing, is hereby further amended by
17 inserting after the definition of “Lamp” the following definition:-

18 “Light fixture”, a product designed to provide light that includes; at least one lamp socket, parts
19 to distribute the light, to position or protect one or more lamps and parts to connect one or more
20 lamps to a power supply.

21 SECTION 5. Said section 2 of said chapter 25B, as so appearing, is hereby further amended by
22 inserting after the definition of “New appliance” the following 2 definitions:-

23 “Portable electric spa”, a factory-built electric spa or hot tub, supplied with equipment for
24 heating and circulating water.

25 “Portable light fixture”, a light fixture that has a flexible cord and an attachment plug for
26 connection to a nominal 120-volt circuit that allows the user to relocate the product without any
27 rewiring and which typically can be controlled with a switch on the product or the power cord of
28 the product. This term does not include art work light fixtures, direct plug-in night lights, sun or

29 heat lamps, medical or dental lights, portable electric hand lamps, signs or commercial
30 advertising displays, photographic lamps, germicidal lamps, or light fixtures for marine use or
31 for use in hazardous locations as those terms are designated in ANSI/NFPA 70 of the National
32 Electrical Code. This term does not include decorative lighting strings, decorative lighting
33 outfits, or electric candles or candelabra without lamp shades that are covered under Underwriter
34 Laboratories (UL) standard 588, "Seasonal and Holiday Decorative Products."

35 SECTION 6. Said section 2 of said chapter 25B, as so appearing, is hereby further amended by
36 inserting after the definition of "State plumbing code" the following 2 definitions:-

37 SECTION 7. Said section 2 of said chapter 25B, as so appearing, is hereby further amended by
38 inserting after the definition of "Transformer" the following definition:-

39 "Water dispenser", a factory-made assembly that mechanically cools and heats potable water and
40 dispenses the cooled or heated water by integral or remote means.

41 SECTION 8. Section 3 of chapter 25B of the General Laws, as so appearing, is hereby amended
42 by inserting after subsection (j) the following 6 subsections:-

43 (k) bottle-type water dispensers;

44 (l) commercial hot food holding cabinets;

45 (m) portable electric spas; and

46 (n) portable light fixtures.

47 SECTION 9. Section 5 of chapter 25B of the General Laws, as so appearing, is hereby amended
48 by striking out the second sentence and inserting in place thereof the following sentence:-

49 “Said commissioner shall review and may also by regulation increase the level of energy
50 efficiency standards for the products covered by subsections (a) through (n), inclusive, of section
51 3, as necessary, but not less than every 5 years.”

52 SECTION 10. Said section 5 of said chapter 25B of the General Laws, as so appearing, is hereby
53 further amended by inserting after the word “lamp” in line 15, the following words:-

54 “and promote energy conservation in the commonwealth”

55 SECTION 11. Said section 5 of said chapter 25B of the General Laws, as so appearing, is hereby
56 further amended by striking out the words “clauses (f) to (s)” in line 23 and inserting in place
57 thereof the words “clauses (a) to (n)”.

58 SECTION 12. Said section 5 of said chapter 25B of the General Laws, as so appearing, is hereby
59 further amended by inserting, after subsection (5) the following subsections: -

60 (6) Bottle-type water dispensers designed for dispensing both hot and cold water shall not have
61 standby energy consumption greater than 1.2 kilowatt-hours per day, as measured in accordance
62 with the test criteria contained in version 1 of the United States Environmental Protection
63 Agency’s “Energy Star Program Requirements for Bottled Water Coolers,” except units with an
64 integral, automatic timer shall not be tested using Section D, “timer usage,” of the test criteria.

65 (7) Commercial hot food holding cabinets with interior volume of 8 cubic feet or greater shall
66 have a maximum idle energy rate of 40 watts per cubic foot of interior volume, as determined by
67 the "idle energy rate-dry test" in ASTM F2140-01, “Standard Test Method for Performance of
68 Hot Food Holding Cabinets” published by ASTM International. Interior volume shall be
69 measured in accordance with the method shown in the United States Environmental Protection

70 Agency's "Energy Star Program Requirements for Commercial Hot Food Holding Cabinets" as
71 in effect on August 15, 2003.

72 (9) Portable light fixtures that have internal power supplies shall have zero standby power when
73 the light fixture is turned off. Portable light fixtures shall meet 1 or more of the following
74 requirements:

75 (i) Be a fluorescent light fixture that meets the requirements of the United States Environmental
76 Protection Agency's "Energy Star Program for Residential Light Fixtures Version 4.2

77 (ii) Be equipped with one or more GU-24 line voltage sockets, not be rated for use with
78 incandescent lamps of any type (as defined in ANSI standards), and meet the requirements of the
79 United States Environmental Protection Agency's "Energy Star Program for Residential Light
80 Fixtures Version 4.2 including line voltage or low voltage;

81 (iii) Be an LED light fixture or a light fixture with an LED light engine and comply with the
82 following minimum requirements:

83 (A) Minimum light output: 200 lumens (initial)

84 (B) Minimum LED light engine efficacy: 40 lumens/watt in fixtures that meet the minimum
85 light fixture efficacy of 29 lumens/watt or, alternatively, a minimum LED light engine efficacy
86 of 60 lumens/watt for fixtures that do not meet the minimum light fixture efficacy of 29 lumens
87 per watt.

88 (C) All portable fixtures shall have a minimum LED light fixture efficacy of 29 lumens/watt
89 and a minimum LED light engine efficacy of 60 lumens/watt by January 1, 2016.

90 (D) Color Correlated Temperature (CCT): 2700K through 4000K

91 (E) Minimum Color Rendering Index (CRI): 75

92 (F) Power factor equal to or greater than 0.70.

93 (G) LED light sources shall deliver at least 70 percent of initial lumens for at least 25,000
94 hours.

95 (iv) Be equipped with an ANSI-designated E12, E17, or E26 screw-based socket and be
96 prepackaged by the manufacturer and sold together with one screw-based compact fluorescent
97 lamp or screw-based LED lamp for each screw-based socket on the light fixture. The compact
98 fluorescent or LED lamps prepackaged with the light fixture shall be fully compatible with any
99 light fixture controls incorporated into the light fixture (e.g., light fixtures with dimmers shall be
100 packed with dimmable lamps). Compact fluorescent lamps prepackaged with light fixtures shall
101 meet the requirements of the United States Environmental Protection Agency's Energy Star
102 Program for CFLs Version 4.0.

103 (v) Be equipped with one or more single-ended, non-screw based halogen lamp sockets (line or
104 low voltage), a dimmer control or high-low control, and be rated for a maximum of 100W.

105 (10) Portable electric spas shall not have a standby power greater than $5(V^{2/3})$ Watts where
106 V =the total volume in gallons, as measured in accordance with the test method for portable
107 electric spas contained in section 1604, title 20, California Code of Regulations as in effect on
108 August 9, 2009.

109 SECTION 13. Said section 5 of said chapter 25B of the General Laws, as so appearing, is hereby
110 further amended by inserting, in line 75, after the figure "2008" the following: -

111 “On or after January 1, 2014, no new bottle-type water dispenser, commercial hot food holding
112 cabinet, portable electric spa, or portable light fixture may be sold or offered for sale in the state
113 unless the efficiency of the new product meets or exceeds the efficiency standards set forth in the
114 regulations adopted pursuant to section 5, provided there is no further federal regulation
115 concerning same.”