

HOUSE No. 878

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 adoption of the accompanying bill:

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

PETITION OF:

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

HOUSE No. 878

By Mr. Smizik of Brookline, a petition (accompanied by bill, House, No. 878) of Frank I. Smizik and others relative to expanding energy efficiency for certain electrical products. 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
2 Official 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
5 work and for the purpose of illuminating that art work.

6 SECTION 2. Said section 2 of chapter 25B, as so appearing, is hereby further amended
7 by 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
9 source of potable water.

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

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

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

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

21 SECTION 5. Said section 2 of said chapter 25B, as so appearing, is hereby further
22 amended by 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
24 for 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
36 amended by 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
38 amended by inserting after the definition of “Transformer” the following definition:-

39 “Water dispenser”, a factory-made assembly that mechanically cools and heats potable
40 water and 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
42 amended 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
48 amended by striking out the second sentence and inserting in place thereof the following
49 sentence:-

50 “Said commissioner shall review and may also by regulation increase the level of energy
51 efficiency standards for the products covered by subsections (a) through (n), inclusive, of section
52 3, as necessary, but not less than every 5 years.”

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

55 “and promote energy conservation in the commonwealth”

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

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

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

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

71 shall be measured in accordance with the method shown in the United States Environmental
72 Protection Agency's "Energy Star Program Requirements for Commercial Hot Food Holding
73 Cabinets" as in effect on August 15, 2003.

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

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

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

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

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

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

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

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

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

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

96 (G) LED light sources shall deliver at least 70 percent of initial lumens for at least
97 25,000 hours.

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

106 (v) Be equipped with one or more single-ended, non-screw based halogen lamp sockets
107 (line or low voltage), a dimmer control or high-low control, and be rated for a maximum of
108 100W.

109 (10) Portable electric spas shall not have a standby power greater than $5(V^{2/3})$ Watts
110 where V=the total volume in gallons, as measured in accordance with the test method for

111 portable electric spas contained in section 1604, title 20, California Code of Regulations as in
112 effect on August 9, 2009.

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

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